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<210> 20  
 <211> 1162  
 <212> DNA  
 <213> Homo sapiens

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 <211> 1837  
 <212> DNA  
 <213> Homo sapiens

<400> 21						
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<210> 22

<211> 1054  
 <212> DNA  
 <213> Homo sapiens

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<210> 23  
 <211> 1066  
 <212> DNA  
 <213> Homo sapiens

<400> 23  
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 aatgaaaaat ctgaaagagt gtgtgtatag aagaagaag agagaagaa ggaaggaagg 600  
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<210> 24  
 <211> 928  
 <212> DNA  
 <213> Homo sapiens

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<210> 25  
 <211> 966  
 <212> DNA  
 <213> Homo sapiens

<400> 25						
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aaaaaa						966

<210> 26  
 <211> 1146  
 <212> DNA  
 <213> Homo sapiens

<400> 26						
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<210> 27
<211> 802
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (337)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (359)
<223> n equals a,t,g, or c

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<210> 28
<211> 1169
<212> DNA
<213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

<400> 29						
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<210> 30  
 <211> 1226  
 <212> DNA  
 <213> Homo sapiens

<400> 30						
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gccactccca	agccctatca	tcactcacctc	agctccacct	cagatcatca	agcattagat	300
ttctcatagg	acatgtcaaac	tatgacctta	acatgtgcag	tttacaatag	gggttgcact	360
ccatgatgaa	tctaatgttg	ccactcatct	gacaggaggt	ggagctcagg	cagtaatgcc	420
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ttatggtgaa	atgcccataa	tttagttaga	tggcaacata	aaaagttaaat	actttattga	1140
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<210> 31  
 <211> 1094  
 <212> DNA  
 <213> Homo sapiens

<400> 31						
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tattagagcg	tttccaatgt	ccccatactt	ctttctcgag	tgctagtcaa	aagcgacttg	180
cagatggtat	ggaatgtctt	tgtgagatag	aaagaacaca	gactaggatc	agaaaaatct	240
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aatagcccca	caactacctg	ccaggattgt	cttcagaatt	acataaaata	acacatacca	360
aagtctctag	aaatagacat	gtcacataat	agactcaaca	aaggctcagc	tcctttcttt	420
ctttttggga	tgactaaagt	agcctaaata	aataagtatt	ccgcaatgca	tgacttgata	480
acataaaact	ttgtcaatct	ctattacctc	caagcataaa	acaattattg	agacaaaaga	540
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tcctggggac	cttctctgtc	tcacagccca	gctctctctt	ccggccacac	tgctgcctcc	780
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aaaaaaaaaa	aaaa					1094

<210> 32  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> n equals a,t,g, or c

<400> 32						
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agaaacaagt	ttcttctgt	cgaggagatc	atgatggccc	ggcagacggg	cgctctctac	180
ctgacgctcg	ttctcatctt	ggctcactagc	ggactcttct	tcgcttctga	ctgtccgtac	240
ctggcgctga	aaatcaaccc	tgccatccct	cgagtcgctg	gcactctgtt	ctctcttggg	300
atgggggacc	tgctccgcac	cagcttcacg	gaccocggag	tcctcccaag	agccacacct	360
gatgaagccg	ccgatctgga	aaggcaataa	ggtaacactg	aaagtctgcc	catggcctct	420

```

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caggatgagc tgaagaagag gtgtgatata aggcctggagg gacaggtatc ctggaggagcg 600
gactgcaggc ccacttgagc aaagcatcag tgtgagctgt gcttcctgatg tttctttgaa 660
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tttatttagt tataataaac atgtatctgt gagatgaata gctttatttt 900
tccttagata taaaaaccta tactaaagtt tattacaacc cattttgaag atattaaaaa 960
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aaaaaaaaa actcgag 1037

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```

<210> 33
<211> 1376
<212> DNA
<213> Homo sapiens

```

```

<400> 33
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ccctgcagcc gtacttgccg ctcatgcggt tggacaagcc cattggaacc tggcttctgt 120
atttaccatg tacctggagc attggtttgg cagctgaacc aggtgttttt ccagatttgtt 180
acatgcctct cctctttggc actggagcta ttctgatgcy tggagcaggc tgtactatta 240
atgacatgtg ggaccaggac tatgataaaa aggtttacaag aacagccaat cgtccaatag 300
ccgctggaga catttcaact tttoactct tggtttttct tgggggacag ctaaccctgg 360
cactgggtgt tcttctgtgt ctaaat tact acagtatagc tctgggagca ggaatccttac 420
ttcttgcatt cacctacca ctaatgaaaa gaatttcata ctggcctcaa ctgacctggg 480
gcttgacatt taattgggga gcgttacttg gctgtctcgc tatcaagggt tcctgtgatc 540
catctgtttt cctgcctctt tatttttctg gacttatctg gacactaata tatgacata 600
tttatgccc tcaggacaaa agagatgatg ttttgattgg tcttaagtca acggctctgc 660
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tgagcgtagt ggggtggaac agtggacaga ctgctccyta ctacgctgcc ctgggtgctg 780
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ggaataaatt tatttccaac cgaacactgg gactaatagt ttttttaggg attgtccctg 900
ggaattttgt gaaagaaaaa aagacagaca aaacaaagaa ggggtatagag aataaaaatag 960
aaaattaatg aatgaaattt atctaggaat ttttaaaaaa ttttttcaaa aatataatta 1020
gatttgaata caaaaatctga tacaatatgt taaagaatta agaacctgaa gatgaagatt 1080
tagaggaatt ttacctgtat ttacttatt tgctagcaaa attccccctt gtcacagaaa 1140
ccagggaact ttocaggatt gagatggcct tgagtatttt agttgataca tttctctgcc 1200
cattataact ctccactgaa gttatgggga ttgacgggt tttggcactt tagaaaaagc 1260
ctgatgtggg tcttacataa atgaatgtct gataagaaa atggactcct ttttttaggg 1320
aaaaataaaa gcaactatgg gaaaaaaaaa aaaaaaaaaa aaaaaagggc ggccgc 1376

```

```

<210> 34
<211> 1220
<212> DNA
<213> Homo sapiens

```

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<220>
<221> SITE
<222> (803)
<223> n equals a,t,g, or c

```

```

<400> 34
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gggaagggag tccgagaacc ctctctgtgg actcaacttc ccaggctctt gtcctcgctg 180
cagaatgccc agggccacaga gaagggaacc ccttttcagg agcttccacg tcacaggctt 240

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[illegible]



ctcttttagga	ggggagagta	ggcctgagtc	atgcttcaga	cacagattaa	aatcagattt	1200
ggtaccagg	gcagtgggtc	acgcctgtaa	tcccagcact	ttgggaggct	gagttaggag	1260
tatcacttga	ggccagaa	ttgagagcag	cctggggcag	atagtgagac	atcctctctc	1320
tttaaaaaaa	aaaaaaaaa	actcga				1346

<210> 36  
 <211> 1026  
 <212> DNA  
 <213> Homo sapiens

<400> 36						
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cctagctgag	atggctgctg	atgcctgcag	gtataagtga	ctgtcaattt	tccttactca	180
tttatcttgc	tgctctcatg	ttaaactaga	agaagtgttt	catctcaagt	gtcctcaagt	240
tcaatctatc	atgttttgct	aattttgcct	ttgtacatca	catctcacag	tcaccagaac	300
atgagttagt	gtctccagg	gcctctgtct	ctgttatctt	gccactgaa	gggagagcac	360
ttaaagccaat	ttgcaggaga	ccacagtttg	ccagaggtca	gagacagaaa	tcaccactgc	420
atcttctttta	aagaatcaca	tcagaaaaga	aaataaagga	caggggagga	aaagaaggga	480
aactaaataa	acacgcctgg	cctaaaagttt	gattccaaga	tttatgacag	aatcagagcaa	540
aactaaatta	aaataatctc	tgtagaaaact	ggacaacctg	aacataagtt	gatttttcca	600
gagaccaaag	aacaaatcat	tgacaaaaca	catacctttt	caaaactgaaa	atgattccag	660
agtttaacttc	atggacctaa	atatgaatat	taacatctca	caaatactat	ttgtaatttt	720
atctcttgagc	agttatgtgg	agaggtgact	tttaagcaaa	ttattagtag	gaagtaagggt	780
taagtgggca	tattccattt	ttacatcctt	tcttctccat	ttatttactt	cctatatgtt	840
taggggcttc	caccacacct	atcctctgaa	ataacactag	agcttttgcc	atttctctca	900
cccaaaagctt	ctcagatgtt	ggaccagcaa	ggcgatcaag	tttgtgtgtt	gtttgtttat	960
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tgcgta						1026

<210> 37  
 <211> 832  
 <212> DNA  
 <213> Homo sapiens

<400> 37						
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gtttattgct	atttactttc	ttgtgtataat	cacatcaact	tggaatctca	ggacacagca	240
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atctcatctg	attatgagaa	gtagggaagct	aaaaacagacc	ttctcttccag	ttttgtgtca	360
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tttgtgtgat	tgtagtgatt	tgagtaattt	caaaaacagat	ttctaggagta	gtcttttata	540
tatatataat	atatataaaa	ttcatatata	tataaaaatac	gtatgggtgt	atatgtgtgc	600
atgtgtgtga	ataataacat	tgaccataaaa	ttatgaagcc	tagtatattt	catatatata	660
agtagtttga	ttttatgata	gctaatttga	tgatatattca	tttgaagaat	ttatctctct	720
ttgtaactga	gaaattacag	catattatcag	aaaaatcattg	ctgttttcca	ttgttaatttg	780
taccacatac	atgtacttaa	ctatcaaaaa	aaaaaaaaaaa	aaaaggggcgg	cc	832

<210> 38  
 <211> 706  
 <212> DNA  
 <213> Homo sapiens

```

<400> 38
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tttgccctgt gatctgtttg gccagggttc ctggggctag gaatatttgc aagactcagc 180
cagctccttc ccagcccccag ctcttggggc tgggactttc tcacccctgc gcaggcacaa 240
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agtgcccttt tgtgtgcaac cacttacctt ttctctgaaa aaactgttct caggaaggat 660
ctgataaact catttactct yaaaaaaaaa aaaaaaaaaa aaaaaa 706

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```

<210> 39
<211> 1347
<212> DNA
<213> Homo sapiens

```

```

<220>
<221> SITE
<222> (83)
<223> n equals a,t,g, or c

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```

<220>
<221> SITE
<222> (334)
<223> n equals a,t,g, or c

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```

<400> 39
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tttggggcgc cctgctgtct gtggcccttg cacatgctgg tggcagccctt ggcattgcac 180
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ccaagatcgc atgctactgc actccagcct gggagacaga gcgagacgct gtctcaatta 1320
aaaaaaaaa aaaaaaccgg cacgtag 1347

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```

<210> 40
<211> 1467
<212> DNA

```

&lt;213&gt; Homo sapiens

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<400> 40
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atgctagagaa aggtagccac cagctttttg agatggcagc tcacactatt tgtgtccact      180
ttttacaaga atgcccctgt tcatactgtc aatgacagaa atcagggaagc agaattggaa      240
cactcaaaaa agtccctgtt acagtgacac tcccctcatg cccctggaata tcacacagag      300
agcttttgag tgagctggaa agtccctccag actcaaggcc gggcctgggs ccacacacaga      360
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cttcatttct tacaccagca ccagcagctg gccttcttct tgagccaatt cccagaaagc      600
aatargctga gtgtcacttt ttcagggttg ctgagagctg cccatggggg gaggcggggac      660
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ttacaggtgt gcccaactgt gccacgcaa tttaaaaaaa tttttttaag agatagggtc      1440
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&lt;210&gt; 41

&lt;211&gt; 914

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

```

<400> 41
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ttcgtgtgta ctctctgctc aaggtccctg tgctgggctg tgtggaccgg cagtctctgcc      180
gctctggagcc aggacagcaa tgctgcacaa cacatgcata ccttggttaag atgtgggttt      240
tctccaatct cggctgtggc acaccagaag agccctgtca ggaggccttc aaccaaacca      300
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ctgatgacct cactgtacag agctgactcc ccaaatccag gctcccatat gtaccccatc      840
cccatactc accctcttcc attttgagta ataatgtct gactctgaaa aaaaaaaaaa      900
aaaaaaaaaa aaaa

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&lt;210&gt; 42

&lt;211&gt; 1131

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

[illegible]

accagcatg	ggcgagggtc	agcaacatca	ctgatcaagc	ctaacgccaa	gtgtacaaa	1020
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actaggacca	ccaggagcac	acaaccccg	accacgcgcg	gagggcatcc	ctccaccaga	1140
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ctgtttagtg	cttctctctg	ccctcagcac	cacagctcaa	gaaaacctaa	agtttcaata	1260
caanccatag	gctccacaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	1320
aaaaaaaaaa	aaa					1333

<210> 44  
 <211> 1004  
 <212> DNA  
 <213> Homo sapiens

<400> 44						
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<210> 45  
 <211> 1494  
 <212> DNA  
 <213> Homo sapiens

<400> 45						
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<210> 46  
 <211> 1166  
 <212> DNA  
 <213> Homo sapiens

<400> 46						
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<210> 47  
 <211> 1536  
 <212> DNA  
 <213> Homo sapiens

<400> 47						
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tgtatgtctt	ttctgtctct	ctctttaaga	acaatgatga	aggctcactg	gacatataacg	180
ctgggttgga	cagtgtctgt	tctgacagcg	cttccaaatc	ctgtgtacca	tcaagaatct	240
gtttgcaatt	atatgaagag	atctcgactg	aagaaggaaac	tgtaaggagag	gcaacatata	300
atgatttgcg	actagaatat	ggaaaatgtc	aactacaaat	gaaaagagctg	atgaaaaagt	360
ttaaagaat	acgacacacg	aatttcagct	taataaaacg	aaaccagttc	cttaagaaga	420
atatttccag	acttatcaaa	actgcagag	tggaataaaa	ccgcaaggat	gaagaaataa	480
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aaggacattt	gatcacagta	aaacaaaaga	tcttaaatct	agatctccac	atttggatga	600
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ggatgggaag	attgtaaaag	agacaagagt	gtaaacagt	atagtttcca	agatgggaag	1380
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<210> 48  
 <211> 1038  
 <212> DNA  
 <213> Homo sapiens

<400> 48						
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gtgctgtgag	taaatgaagg	ttggatggat	ggatactgac	aatggtggca	ggcatcttcaa	180
gcctttttaa	ttagtacttt	ttgtcgtctt	gcttattaaa	attttgttaa	tttagtcaaa	240
gaccaattgt	tgtgataaac	tggtgttttt	tggaatgctc	aagcacacgt	taaccaattt	300
tttaattccc	cttttgggtc	ctccatttgt	tctaaaatag	gactttcata	ttattaaaaa	360
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gtgggctcac	aggatcattt	atttatattg	tttatattac	aataatatat	tgtagatcac	960
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aaaaaaaaaa	aaaaaaaaaa					1038

<210> 49  
 <211> 1176  
 <212> DNA  
 <213> Homo sapiens

<400> 49						
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cctaagaggt	tgaatttaga	ttataacatt	tgctctgagt	attttacatt	acagcctttg	960

gggggaaaaa	tacaaatgag	atctgagaac	agtgggtactc	atcttttgagg	aattatggaa	1020
aacgttaata	aacactaaac	atgggaaaaa	atcgcccttc	agggtgaaaa	gtggaatact	1080
caatccctga	attttttttt	ttttttacta	agtaactttt	ttgcccattg	gtgtcattta	1140
acccaaaaga	gaagaattc	caaaaaaaa	aaaaa			1176

<210> 50  
 <211> 731  
 <212> DNA  
 <213> Homo sapiens

<400> 50						
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cacacaaacg	tgccctccag	aagcagcccc	tcggaggcag	aggaaaggaa	atggggatgg	180
ctggggctct	ctccatctct	cttttctctc	tgccctcgca	tggttggctc	tcctctccaa	240
aaactccact	cccctgtctc	cagccccctt	gccatagcct	gattttggct	aggaggaagg	300
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aaggtgggag	gggtggcaagg	gatgtgctta	ataaatcaat	tcacaagcctc	aaaaaaaaaa	720
aaaaaaaaaa	a					731

<210> 51  
 <211> 1437  
 <212> DNA  
 <213> Homo sapiens

<400> 51						
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cccgcaatgc	cttgggggaat	gtcttcgtca	gtgagctgct	ggaaactctg	gcccagctgc	300
gggaggacgc	gcaagtgcgt	gtcctgtctc	tcagaagtgg	agtgaaggcc	gtgttctgtg	360
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<210> 52  
 <211> 1369  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

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<400> 52
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aagtattttg ggaactttggg tgtttttccc caaaagcaaa ggcaattgcc tcaaccaccag      240
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ctagcaggca ctggagcccta tttctggaat tcatgtttgc accatgtccc ttctgttttg      1260
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<210> 53  
 <211> 1037  
 <212> DNA  
 <213> Homo sapiens

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ttccactctc ctgtggctgc tggcatttct tggctgttgg tccactcact cctattctttg      180
aggccagcat ctccaatatc gttttctctt cacatagcct tctgtgtgtg cagtgccttc      240
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atcttcaact taatcacacc tgcaaaaaacc tctttcccaa ataaggtaac attcacaggt      360
tccagggatt aggaacctatt atcttttgta agtattatc agcctaccac aatagctaaa      420
acaattctga taaagaagaa taaagtgtaga gaattcagtt tatctgattt cgatacttat      480
tgtatagcta ttgttaataa ggctgcattg tattaaagaa aggcataaac tgaattgaa      540
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agaagacaat ttattggagg aaagacagcc ttttcaacaa atgttactat acaattaga      660
tatccatagg caaaaaaaa aaaaagaatc ttgattcaag gctcacacct tatataaaat      720
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ctgaggcaag agtatcactt gaggccaggg gtccaagact agcctgggca acacagtgaa      840
actctatctc tacaaaaaaa ttataaacta gctggcagat gtggcacagt cctgtagtca      900
caactactca cgaggctgag aagatcactt aagctgagtt gttcaaggtt ctaatgagct      960
acaatctgtc cactgcactc cagcctaggt gacagacaaa gacccctatc aaaaaaaaaa 1020

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aaaaaaaaa actcgta

1037

<210> 54  
 <211> 1373  
 <212> DNA  
 <213> Homo sapiens

<400> 54  
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 caaggcaaa gctgtccctg gatggttggt aaaaatgcgc acaccagagt gggtttgtgt 420  
 tggcaggagg catgaraaaa ccttgctgat ggcaggggag gacggcgaca ccacgatggg 480  
 aacaaaaatc tcctctctac ytctaattac aaagaggaaa aagtcaactg aaaaaaaagt 540  
 ttaaaatgtc ttaataata agtcataat aatccaaagc taccaaaagg caagtgttta 600  
 ggggggaagt tctggttggt aaccccaact cagggggatt taaagtgttt gtggtgagga 660  
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 gaaaaatgar ggartggctg ggtgcagtgg ctacatactg taatcccaac actttgggag 780  
 gccgagagag ccagatcacc tgaggccagg agttcaaaac cagcctggcc aacatgggtga 840  
 aacttcatct ytcacaaat acaaaaaata gctaggcatg atggcaggct cctgtaatcc 900  
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<210> 55  
 <211> 1347  
 <212> DNA  
 <213> Homo sapiens

<400> 55  
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 catcagacct ctttgcacaa tggatggatg ttaattctatt ggcttcagag ctatttcaat 180  
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 acgtttggtg ctttgcagtg gttgaatata gcactgcgga gcagctgaaag aggtccagca 360  
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 cgccaggggc aagtacatta cgagcattga tagcggctca acgtgtgatg cacagttaac 480  
 aaaaagggtt acttccagag ccaaatccag tacaaattat gaaaagtta acaaacctgt 540  
 ccatgttgca agttcttcta cagccccagt tatgtggagc agctgtttaa ccaggtatgg 600  
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 gaaatatgga aaaatacat gatattgtgaa aaatatatt aaattagtat aaaaatttta 720  
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 acattgttat aacctatatt aacaaagaat taataactct tatgtaatat ttttagcaga 960  
 attatttgtt tgaaaaagtc caagtggttg ttctctcttt gttctcccc ttgttgtgt 1020  
 aaaattgttt catcttgtag caaatgatga aaacattatt attttctaag tgttatgcaa 1080  
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ataggtttta	aaaaaaaaaa	aaaaaaa				1347

<210> 56  
 <211> 822  
 <212> DNA  
 <213> Homo sapiens

<400> 56						
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ggagatggag	gtgtgagcag	catggctctg	tgtgtgtttt	tcttgttttg	gagtagagtt	180
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tcaaatgtgt	gtttgcacac	cagtaatgga	aaatcatctg	tgacacactg	ttagtttaac	300
tgatactttt	tttttcatag	caagatttct	taatgaagga	agtaattgat	tgattttacat	360
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aaaaaaaaaa	aaaaattagc	tgggtgtggg	tgtgcacacc	tgtagttcca	gctattccar	720
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<210> 57  
 <211> 536  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (536)  
 <223> n equals a,t,g, or c

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<210> 58  
 <211> 1262  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (12)  
 <223> n equals a,t,g, or c

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 ttatttccatt tcttccccat acaaaatttga tgagcaggta cacactttct ttaaaaacatt 300  
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 agcgttttttt tgtttttttt ttgttgtttgt ttgttttttt tttagtgtat ttgctattga 480  
 tacttttgcta ttgatacctt tacttgccaa gatttatatta aagttggcca agataccaag 540  
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 gtaactttcc ccagataact cagtaaacag tggagctgga attcaaacat taccggtctg 900  
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 cc 1262

<210> 59  
 <211> 1269  
 <212> DNA  
 <213> Homo sapiens

<400> 59  
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 aggttttgga cagccctgtt tgaaatttgg aagtgaanaa ctggtgcac aaagccatcc 180  
 ttgctctgct tcccctggga ttctctgctg atgaattact ggcttcccta atgatgtkctc 240  
 ttacagagaa gtatcagaac tgcagttcta ccacagacat astgaatcaa caactcagga 300  
 gcttggggca gaactttatg ttccaacaaa atctccagtt gattctgatg tagcctaaag 360  
 tttaaagaacc acattgctat agagcataaa ttatttgagg gtatgtctca cggattatttt 420  
 aaactgatat ttctagtgtc cagtgcttga cctaaagtaa gaattccaga catgttttatg 480  
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 aaactcgtgta 1269

<210> 60  
 <211> 1829  
 <212> DNA

## &lt;213&gt; Homo sapiens

&lt;400&gt; 60

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aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa      1829

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&lt;210&gt; 61

&lt;211&gt; 1112

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 61

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<210> 62  
<211> 1674  
<212> DNA  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (734)  
<223> n equals a,t,g, or c

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<211> 1045  
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<213> Homo sapiens

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<400> 64						
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<210> 65  
 <211> 1182  
 <212> DNA  
 <213> Homo sapiens

<400> 65						
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<210> 66  
 <211> 675  
 <212> DNA  
 <213> Homo sapiens

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	aacctcattg	atttttggcca	gaaaaaggta	tgggtcagcc	agtgttctgg	gggactgttg	300
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<210> 67  
 <211> 1105  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (797)  
 <223> n equals a,t,g, or c

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	gtctccataa	attcattttt	aataagtcca	attctgtgtg	acttttaaat	aaataaacat	300
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<210> 68  
 <211> 1279  
 <212> DNA  
 <213> Homo sapiens

<400> 68  
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 cggtaaccaa tcgcctgag 1279

<210> 69  
 <211> 1638  
 <212> DNA  
 <213> Homo sapiens

<400> 69  
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 ttctgcacaa atggaggacc actttctgat agggactttt cctttttctt tctgttttct 360  
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 <211> 887  
 <212> DNA  
 <213> Homo sapiens

<400> 70						
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<210> 71  
 <211> 864  
 <212> DNA  
 <213> Homo sapiens

<400> 71						
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aaaaaaaaa	aaaaaaaaa	aaaa				720

<210> 72  
 <211> 1217  
 <212> DNA  
 <213> Homo sapiens

<400> 72

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&lt;210&gt; 73

&lt;211&gt; 1717

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (712)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (721)

&lt;223&gt; n equals a,t,g, or c

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (903)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 73

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 <211> 1276  
 <212> DNA  
 <213> Homo sapiens

<400> 74						
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gaagctttaa	agacttacta	tataaataaa	accacatttt	aatgaacttg	aaaggttaat	900
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aaaaaaaaaa	ctcgta					1276

<210> 75  
 <211> 1144  
 <212> DNA  
 <213> Homo sapiens

<400> 75						
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aatttacata	tattctgtgt	tatatatgtg	tggtggcacg	tcacacacac	acacacaaat	180
atgtatacag	atgcttctgt	gcttacaata	ggatttccat	ctgataaaat	catcgttaaat	240
caaaagtatt	gcaagtgtga	aatgcatctt	ataccccagt	aagtctcata	tttgktcaaa	300
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ttgtcatact	acaatggcag	agttgcataa	ttgtgcacaga	aatcaaatgg	cttacaataa	600
ctaaggcatt	tctacatagc	cttttaaagt	aaaaagttta	ttcatgtgtg	gtctacataa	660
cgtagggagaa	tttgtatcgg	acaggctatt	acagtcatgt	aattgaaaag	aaggggagaag	720
ttgggggaga	ctagttagctt	tttgaaggt	ttattttaga	gattttagaa	kttttgagaa	780
acaagggatg	aggaaaaagt	attgaagaat	ttgggagagc	aggatatcaa	ttagtttctg	840
actttattgg	gaatgcagat	cagagaaaag	ctgggataga	aaactgaaat	aaataattata	900
gccttcgggtg	aatatcagca	ggactgatgg	gactataggg	agggtagact	agggtgataga	960
gccattgtg	gcagtttcgg	taggacatca	ttggtgtata	ogtatatgtt	atttgtgatt	1020
ttgtttatct	ttttttaata	agcaaaaagga	aaagtgtcct	gatattgttt	ggctttgtga	1080
cccatccga	atctcacctt	gaattgtaac	aaagttttac	catgttaaac	aggctagctct	1140
cgta						1144

<210> 76  
 <211> 918  
 <212> DNA  
 <213> Homo sapiens

<400> 76						
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tataactatg	atgccagata	cccaagactc	aaacttttcc	tttccctttag	ataccacacta	360
cttagtcatc	aattttgggt	caactctactc	cactaaatag	ctttgacttc	cattcaactta	420
ccacttttaga	ttagtgtcat	agactccat	tttacctctt	tcataatcat	ccctttaaaa	480
ctcccaatg	cttccatgt	ttcaacaaa	agctcaaat	cttttaaat	aaagtgttat	540
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tctcccaaat	gtccctgtat	ttttcattga	atagcaattg	ccacatttta	ttttatgatg	720
ttgtgttacc	atttataat	atatttacta	cagactctgc	ttttagaagg	catacactgg	780
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ataaaaaaaa	aactcggag					918

<210> 77  
 <211> 1065  
 <212> DNA  
 <213> Homo sapiens

<400> 77						
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gtactctcgt	tagcttttacc	cccttcagca	actgcttttt	gctcagtttc	tgtagtcttc	180
accaccccg	gtggcttagg	aaattcacaa	tggttccaga	ggaaagtgtg	tgaagggtgg	240
ctagaggacc	agaattcttt	tcctctgtgt	octggctgtc	ctgtggccct	ggactccaca	300
ttttttacac	tagccacact	ggccccaccc	ctgtttgggtg	tcaagtgcct	ccaaaactgac	360
aaagtgcctc	aggaggaaac	gctcggatgc	aggcgacgt	cagtctcatt	ccctttctatg	420
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gtgtgcatc	acttagtctc	gcagtcctgt	gtgtttccat	caggaaagtc	aggcaggcgt	540
tagcttcaat	ggcaggaggg	aatctcctgt	ggcctccatg	gcgctgtgtg	tttctccagt	600
ctttttttta	tgacacagaca	catcatcccc	tttgtttcct	tttgtgatgc	tggttctataa	660
aggatcttta	tttctagaag	aaacttttagg	aggcaaaaac	agcgcaagcc	ccctaaacaga	720
gtggctctgg	tgcccaactt	cccttgttaa	ttgtctctgt	agccccact	ttcccacagc	780
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tgtagccctct	tatccattt	gctgacaagg	atcctgaagg	cccaagcata	gaaaagaagt	900
gctatggctg	ccatgtgtca	gcagcatagc	catggccaac	tcagggccct	gactcctacc	960
tgagccctct	ctgaatgaca	ctcaaggtaa	gggtccctct	cccactaca	ggtgaggtag	1020
aacatttcc	cttgaagaag	ctctgcccc	cagcctcccc	tcgta		1065

<210> 78  
 <211> 1126  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1124)  
 <223> n equals a,t,g, or c

<400> 78						
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tagcatctga	cagatgaagg	gctgggtacc	tgtcaggaag	tgaagagcgt	ggtttaagagt	180
ctctctatgct	aggttgtcac	agtcaccagc	tactagactc	ttggctacaa	catttctcac	240
caagagcagt	gtccttgggg	aaaaactaaa	cagggatgag	aaaggggtta	ggaataaaac	300
tytctcctag	agaccaggtc	agaatacata	atgggtttta	cttcgcaata	aagtgcagaag	360
gtgcacttgc	ataagccacc	ctgatacacg	gaaagcactg	ggcacagaa	taactttccc	420
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tttacacaca	ctactcagtt	atataattaa	gacaaaaatt	gataaaatc	ttatactttg	540
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caggggcaat	ccaagcactc	taactcctgg	ttccctgtct	tatccctcat	ccatgcaccc	780
tttttttaag	atccatattg	attagtgaat	ctcatttcca	aatctatgct	tggttagcat	840
aatctctcat	ccagaactcc	cccttgaatt	tgagatccta	tatctaaggg	cccacctcca	900
ttctctccct	cagggtctac	agacacctta	aagtcaatgt	cttatcttgt	tccttttacc	960
gctcccaaac	gagtcattgt	tcactttcca	ctccttattt	cagtaactgg	aactccatcc	1020
ctccagaagc	acaaaaacaga	acctgggagt	catccttgat	tcttgctatt	tcctcacctc	1080
ccatatccaa	cctatcccca	agtcctgatg	actttacctg	ctgnaa		1126

<210> 79  
 <211> 984  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (232)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (332)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (333)  
 <223> n equals a,t,g, or c

<220>

<221> SITE  
 <222> (929)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (943)  
 <223> n equals a,t,g, or c

<400> 79  
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 ccccgccccc ccgagcagcc gacgctcagg cccgggaggc ggcgtaccgc gagctgtctgg 180  
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 cgctgggggc cgtgcgcggt cgcgtccgcc gggggggcga ggggtcgcgt tactccctga 300  
 gggcgacctt ggaggagcct cctgcacacg annccacggt gtgccagctc cctgtgtcya 360  
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 ggcggagctgc gggccagtgg ataccaagggt cacagatgac aaaaacgaga cattgagttc 480  
 agtccctcca ctgttgaaca aggaacccctt gcccaggac ttttctgtga aaatggcttc 540  
 aatcttaacg gagttcgtta ccaactataa tcggagctat gagtcgaagg aggaacccca 600  
 gtggcgcatg tctgtctttt ccaacaacat gatgcgagca cagaagatcc aggcactggga 660  
 ccgtggcaca gctcagtat ggggtaccaa gtctcagtgac cttacagagg aggarttcca 720  
 taccatctac ctgaatcccc tccaaagaga gtaccattggc aagaacatgc gcctagacaa 780  
 ctctcgtcgc gactctgccc catccgartg ggactggarg araaaggggg scgtaccacaa 840  
 agtcaagaa caagcatgtk tggctcctgc tgggctttct cartcactgc taacgtggag 900  
 ggccagtggt tcttgaacaa ggggcctgnt ctscctctcc gancargarc tcttggactg 960  
 tgacaaagggt gacaaggctg cctg 984

<210> 80  
 <211> 1247  
 <212> DNA  
 <213> Homo sapiens

<400> 80  
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 tgcagacaga agtatgcctt catggaaact tcacctccag ggggttccctt tagacctcac 120  
 atccattagg aggggggtgt gaaaggatgc ccacgtgggc acttttacaa ctgctgtcct 180  
 gctcatttcc ttccctactt tgtgaaacgt tcactttctg ctccaaagat gaagtgtcac 240  
 ttgtggaaggc gggatgcctt gtgccccttc cagcaagcta acttccaaat aaattctcta 300  
 wttttatata agaccttggt ctgtttaatt agactttaca tgaagtggag aactaagctt 360  
 ttctgttaca agacttcatg cccacagata cattcaagtc ccaggtggaa ggaatgatctg 420  
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 tgttttgttc caatatagtc cctccttgtt gccactcaga tgtgctcatg cctcccaact 540  
 tgggctgggt ttataagcag atgccttgtt tagttgcacg ggggtcttgt cttagggggc 600  
 tttttgtctg gatatagtt ctgcacttgc atttttattt ttcagacagc ggatactcct 660  
 ccaactgaaga gggaaatagt ctgcagtaat tccctagggg ttgtcttctt cctctcctac 720  
 gggcttgatg gagacaggca cagagtcctg tgatgccacg gtlkcatgccc tctagcagct 780  
 ttgaattctg ctggatcctc ttgtcacaat gggccgagcag gttggggccag accctgtatc 840  
 tgcgttagag atattatatt tcttggattc cacttgaaac caggagtcct tgcattcatt 900  
 ctgtaaccca ctgtggtttg gcagaggcta ggttaggttaa ctgaacaggg atttaaaagg 960  
 gactttatta acacatcaga gcaaatcct ctactgtggt atttttggac tccaaaaatcc 1020  
 ctgagggtct aataaacgoc gtgcttctct tttagtgata ggaagtatat aggaagccat 1080  
 ttaccttaaa caggatgttt ctgctcgcca tgggtgttca cgcctgtaat accagcactt 1140  
 tgggagacca acgcaggcag atcactggag gccaggagtt tgagactagc ctgagcaaca 1200  
 tgggtgaaac ccatctctac ttaaaaaaaa aaaaaaaaac ctcgtag 1247

<210> 81

<211> 958  
 <212> DNA  
 <213> Homo sapiens

<400> 81	gaattcggga	cgagtgagat	tgcatccaga	cagagtttta	aaagtgtccc	gggtgagttt	60
	aatgtacagt	tgaagttgag	acatgaatct	ctgcatgtag	gggaaatttt	gtgtctggtt	120
	agtcagaaga	ctatgggaac	caattcttga	tattttgaac	cattcacgaa	gatagtttga	180
	gtcatagaga	tgctgtgttc	tagagtgggc	ggggatgact	cattggagtg	gatcgctgct	240
	tctgtacttg	atttttttga	gtctgaaatt	agctttccag	gctggggcag	ggagggggagc	300
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	gcgcctctgc	tgacacaaca	tatttctctc	ttccagccct	tcagaagtgt	attggaatat	420
	gtcgwtaaca	ataatgatgg	tagtgaagat	gatgatgatg	tgggtaattc	tggtacacct	480
	attgggtcca	agctccccac	aattcgttgc	acaaagcact	ctacatacat	tctcttttagt	540
	cctgatcaaa	ccacctttca	gagtaggatt	tagtgtccta	ttttaaagat	gaaggagctc	600
	gggctcagag	agagatcggt	tagacacaca	cacaactttg	gaatgaatac	tttacagccg	660
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	tgagtccagg	agttctgggg	tgttagtcgc	tatgccgatc	gggtgtccgc	actaagtttg	780
	gcataaata	ggtagacctc	cgggagtgga	ggaccaccag	gttgccaaag	gaggggtgaa	840
	ccggtccagg	tyggaatgaa	acatttacaa	aaattgacat	ttccttatgc	atagatatatt	900
	cactaggtcc	ttaaaaccca	cgtgaatctg	tgattaaaaa	aaaaaaaaaa	aaactcga	958

<210> 82  
 <211> 1392  
 <212> DNA  
 <213> Homo sapiens

<400> 82	attcgggaga	gcagaaaacc	agactgcact	tgctttataa	aacagagctt	tatttttctt	60
	tcataataag	cagagttgca	gtgttgctgg	tattgatcca	ctggcgtgtg	ggatcacgga	120
	cagatgtctc	tatgatataa	ttttggcctg	tcactcatgt	ttgcatatgg	ctgttgtgtg	180
	tcacaagcatt	ggaagcaaga	ggacagggaa	gcaacattga	ctgtaccagg	aaactccaaa	240
	cagtctctcac	atcttaattg	ttggacaatg	ccaaatggtc	actcttttct	ggaagtgtac	300
	tggggacaa	atagttgtaa	ggatttagat	tgccacgaaa	gtttctgcca	cagttagctt	360
	tcctgtctcaa	atccttattt	taactgttgt	cacttaatat	tcacactttg	gaaggacatc	420
	tactgtttgt	tacaatttat	aaaccaactt	gaatactttt	tagttgaaca	tttcagttagt	480
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	ccaaaccccca	acttttgyta	gagagttact	ctcttaactt	ttgctagaaa	gtagcaaaagt	600
	ctctctactct	acatgtttcag	ggctggctgt	agaatttctg	tttttaagga	aacaggaaga	660
	cagaaactaat	tatgcaagtc	ttcatttagc	tttttaaaaa	aacagcttta	ttgagttaga	720
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	tttaggatta	gtataactgat	aatgtgtcca	ttgttaagtg	acattttccag	ttttgacaaa	900
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	atgcatgttt	ttgtcatttat	tagtagttta	ttcttttttt	gttgggtgag	agcatattgt	1200
	gtatggatct	attccagctc	gtttttatcca	ttcacttttt	ggacatttgg	ttgtttatcca	1260
	attttgggct	tttttgaatt	aatccctccc	tcctccctcc	cttccccc	tcctccctcc	1320
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<210> 83  
 <211> 1155  
 <212> DNA  
 <213> Homo sapiens



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<400> 83
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cctaacaatg tagacgcttc agaacaatata ccctttgtta atcgatgcat cactgtatat    120
atgtgtgtat atacacacat atatgtacat atatttaata ctttgtgtga tgtgtgtgtga    180
tatatatata tatatacttc tcattatttta tactcttagac ccagagcgctc cttagctggtc    240
tccaaaattg gactctcatc tctcttttgag acagccttca aatgatcggtt tttaaagtgct    300
taattaaactc ctctttccaa aatgcttcaa tggcccaacta atctctaccg aatcaaggaa    360
ttcagccata ctgtcccaag atatctttcc tggcccaagt ggagcctcat ttcagctgct    420
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ttacaatgat gccaatatct tcaggctttt aagactaaat tttaaattac gagaaaaatt    1080
gatcttcaaa ctttaagttg acctagaaag aacaatctca tgaactcaaa aaaaaaaaaa    1140
aaaaaaaaa aaaaaa                                     1155

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<210> 84
<211> 1373
<212> DNA
<213> Homo sapiens

<220>
<221> SITE
<222> (877)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (897)
<223> n equals a,t,g, or c

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<400> 84
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cgaaactcgcc tcttctctct ctgtgtctgc tgcgtctctt ctacgctcc ccaccaagagc    180
ccggctggcga ctcccaagca tcccgcgctt tccaaagccag gagaatctca ggaattcccaa    240
gggaacccagc gggaacttcc aagcaccttg agcttttctc ctttctagt ttctgggcata    300
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 <213> Homo sapiens

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 <212> DNA  
 <213> Homo sapiens

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 <222> (977)  
 <223> n equals a,t,g, or c

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 <212> DNA  
 <213> Homo sapiens

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 <223> n equals a,t,g, or c

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&lt;211&gt; 2086

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 89

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1980  
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2086

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<223> n equals a,t,g, or c
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<212> DNA
<213> Homo sapiens

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<210> 93
<211> 1365
<212> DNA
<213> Homo sapiens

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<400> 93
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<210> 94  
 <211> 756  
 <212> DNA  
 <213> Homo sapiens

<400> 94  
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 caactttgga ggcacaaggg gaggatcac ttgagccctg gagtttgagg cttccaggaa 660  
 gctatgatta caccactgct ctccagcctg ggcaaacaga gtggcaccct gtctctaaaa 720  
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<210> 95  
 <211> 938  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (479)  
 <223> n equals a,t,g, or c

<400> 95  
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<210> 96
<211> 928
<212> DNA
<213> Homo sapiens

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<400> 96
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tccccctcct tgatttttgt actcataaagg ttgtatccag agagaagttt gaggaataat 420
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gactttacct acattcgaaat taagttaaaa tagcactgat aatggatag aggatccaaa 600
cagaaacatt ttaaatgaaat ctagttaagt attgagccgg gcacagtggc tcacacctgt 660
aatccccagc ctttggggagg ccgaggcggg cagatcacct gaggtcggga gttcaagact 720
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cctgtaatca cagctactcg ggaggctgag gcaggagaat cacttgaacc cgggaggcag 840
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<210> 97
<211> 1715
<212> DNA
<213> Homo sapiens

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<220>
<221> SITE
<222> (17)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (34)
<223> n equals a,t,g, or c

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<220>
<221> SITE
<222> (40)
<223> n equals a,t,g, or c

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 tatagtgggt aaaaactctt acatagtcac acattttacaa atttttcaag aggttagcca 180  
 ctaagacttt aataatttta caagggaaaa agcctttttt ttttvtgtat atacagtttt 240  
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 aaaaaaaaaa aaaaaaaaaa aaaaaaaaaa tctga 1715

<210> 98  
 <211> 678  
 <212> DNA  
 <213> Homo sapiens

<400> 98  
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 ttgagtaaac ccccatgac tctagttaagt ttccacagta tttgagtatt ctttatcttc 180  
 taaagctgta caaacatcag ataatacaata tttgtaagga tcatataat atttataaat 240  
 gaaatgtcct tatcagctat taatgttaac tacatcatct tcatatagcc ttataactca 300  
 ttttgcctat tccattttcc tctgttcctt ttattttcac ttcccttgta atgttagctt 360  
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 ttgcaaatat gttttttccc attcatttta ctatgggtgt ttattttttg ttatcacaga 480  
 aggtgtatat tgaatatata ttctgtctgt ttttatgact ttggagtttt tgggtttttt 540  
 aaaaactggt tacattgcta tcatattttt gtattgcctt ctatttcaag agtttagttg 600  
 tccatttctt ttccattaat catcattctg gtgttaatga atgcattaaa tatttaaggt 660  
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<210> 99  
 <211> 1541  
 <212> DNA  
 <213> Homo sapiens

<400> 99

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cagaagatgt tgaatttaga aacgtacttt ccagggaataa attaaaaatt gagtcttattg 600
ccacctacaa taatcaggca ctgtgccagk tcttaggact gtaagaaaaa ctatctctga 660
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<210> 100
<211> 881
<212> DNA
<213> Homo sapiens

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<400> 100
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<210> 101
<211> 947
<212> DNA
<213> Homo sapiens

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<400> 101
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agagttctgc	tagtagagaa	tgtgcccccc	gctagtagtc	tagagtcaca	gccccagatcc	300
tagccttcgg	gtggaggtgc	cgcccatatga	acggccatca	gactgtcccta	ttgttcagagc	360
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<210> 102  
 <211> 1369  
 <212> DNA  
 <213> Homo sapiens

<400> 102						
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caaaagaact	tcattcattaa	catgacttgc	agatttttgc	ggcagcttcc	tgaacacagat	360
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ggagcagggc	ttagaaaaag	ccctttgttc	cgtagagtgt	atgtgtgtgt	agtgtatatat	780
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<210> 103  
 <211> 1231  
 <212> DNA  
 <213> Homo sapiens

<400> 103						
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gtcaatttcc	tggtatgcac	tgtggcttta	ttttttttgt	tatttaaaat	gtttagccaa	180
agtgagatca	gcacactact	atttatatgt	ttgagggcac	tgtagtagtga	ataacacaaat	240
tttgtataac	ttacttaact	aaaaatatatt	ataatacttc	tcaataatga	ttctaatgaa	300
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aaaaaaaaa	gacctacttct	actctttttac	tgaaatcaaa	tagatggcat	gtgatgatta	420
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aaaatgaggg	gaagaaaaatc	aagtactctta	aatgattaaa	gcgtatgaat	aagtgaaaaa	1140
tgttttgcaa	attgagaagg	aaggagaaatc	gggaagtggt	tatttatggt	gtctcaaat	1200
gtaagggttaa	aaaaaaaaaa	aaaaaactcg	a			1231

&lt;210&gt; 104

&lt;211&gt; 1242

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (288)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 104

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&lt;210&gt; 105

&lt;211&gt; 1151

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 105

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gtggaagcat cctgtcagtc cactgtacag tgggggtggag ccgcagcgag ggtgggtgtg 300
ccgtttgatc ggtcacggaa tgaacagggc aaaggtcact aagtagatat gatactgcaa 360
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gggtccagct gcttgaagtgt ggaggagagc ttcagctcag gatttccag ctataggagg 540
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<210> 106
<211> 1628
<212> DNA
<213> Homo sapiens

```

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<400> 106
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aactcccaaa aatctctgaa cggggccctt gagccctatg gcttgggtcc attccccaaa 180
tgtggagtgt acttttcatt tcaataaaatt tctgtctttg ttgcttcatt ctttcccttg 240
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acoggtaaca ctcttacaat tatgcagtgt tgacgtgcat agcccgctgc actatatgtg 360
gcagtgtgtc ccacttagca atgaggagcg catattttcc tgcatattca ccaaaaacat 420
gttatcatct ttattatttt attatttttt tgagtcaggg ccttgccctg tcacccaggc 480
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tgatcacttg agtccaggag tttagagcca cctggggcaa catggcaaaa ccccatctct 600
acagaaaaata attagctgga tgtggtgatg catgcctgta gtcccagcta ytcaggagac 660
tgagatggga agatcacttg agcccaggax tttagargctg cagtgcagta tgatcatgcc 720
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aagaaaaagg aaagtaaaaa ttgctaaaac cytccaaagt ctatgtagga aatatgtaaa 840
tgggtgtgtc tttccaaagt gaagtgcctc aagtaggcct ggggtctgca gctcagaaag 900
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tgtatcatat caccaaagga gatgtgtgta tgcaatttta taagtaaaaa tacactagtg 1560
tcagtttttt ttcaaggga aaacctgatt gcattctttt aattaaaaaa aaaaaaaaaa 1620
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<210> 107
<211> 1465
<212> DNA

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cagcaagggg	gattccagctg	catgatcatca	acaaaagaaga	caaccagagat	tatgtggaagg	180
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aattatttga	agaaattctt	tttatcata	yacctgtgt	gtaagaaact	ttaaaacatt	900
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aagtttacag	actaaaagag	caaaactgac	ggctcaaaaa	taaaaatgca	ttatttccgt	1020
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cattgtaag	aacagaaatt	actttaaaaa	ataaacagaa	atggagacct	gtaaaaaaaa	2160
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&lt;210&gt; 111

&lt;211&gt; 1453

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (946)

&lt;223&gt; n equals a,t,g, or c

&lt;400&gt; 111

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cagatgaaaa	tttcttttat	aaaagggtaa	cttctctgta	ttatcctgtg	tttgctattt	120
ctgaaaaata	taagctgaaa	atattcctct	ttggcataag	gattattttg	tggtggcatgt	180
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aaagggcgcc	cgc					1453

&lt;210&gt; 112

&lt;211&gt; 1552

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens



<220>  
 <221> SITE  
 <222> (1035)  
 <223> n equals a,t,g, or c

<400> 112  
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 tctctgtgcc atgcaggatg cagctgtgtg tgatatggtt tacagtaata ttctttcttc 180  
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 caccggtgta atccccggcac ttggggaggg caaggccggg ggtacagag gtccggagat 480  
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 gggcaacaga cggagactcc atctcaaaaa acaacaacac aaacaacacaa aaacatgggt 720  
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 acagaaacct aaagcttgat gttttggggg gctgcctgtc atctataggt tcatttaggt 960  
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 tgatttaaaa tgtgnacatt gattttttrr aattccraaa taacagccta taaggtawat 1080  
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 ggaaaaattc gccacatggg ggaataattga tattgtcacc attgagttgc tctgtttctt 1440  
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 aaaaaaaaaa aaggaattcg atatcaagct tatcgatacc gtcgacctcg ta 1552

<210> 113  
 <211> 1489  
 <212> DNA  
 <213> Homo sapiens

<400> 113  
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 gagtgaagca acatggatgc agtcagccaa gtccccaatg aagtctgtct tcccaagcac 180  
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tctcattgat	gtacacaacc	aagttccaat	aaagtgcctag	aatgtgaaaa	aaaaaaaaaa	1440
aaaactgcga	ggggggggacc	cgtaacccta	atcgacctta	atgagtgtga		1489

<210> 114  
 <211> 607  
 <212> DNA  
 <213> Homo sapiens

<400> 114						
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gtaactagcc	tctggctcct	tttgagagtt	cacagtttgg	tgcaaacctc	ttggatgtat	180
tattttggaa	aattgggatat	ctggcagcct	gtgtccctgc	tttacattat	cccttttctg	240
gcctgcccc	gcctcctcat	tagcatccct	gccaggccca	gtggagaagg	atggagatgc	300
gggtacattc	agctgacagt	tgacacagat	tgataatagc	taacagcaca	tcctccccc	360
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cctgccc						607

<210> 115  
 <211> 1498  
 <212> DNA  
 <213> Homo sapiens

<220>  
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 <222> (791)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (895)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (915)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (936)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1017)  
 <223> n equals a,t,g, or c

<400> 115

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gcaactattaga gaaatgtgtct agtaaaagt ttacaaacagg atatacgaact ttgtcttcag      180
ggttaggaaa gacttctgtg ctctccactag ctgatgtctc attccggact cgtaatgcca      240
gtagcgtgtcc attcttcttct tctctctaata ctcccttacc gagtactctcc cgtgggacag      300
gtaactcagt tgaccccaag agcagtgga gtaaaagatc acaaacacag aaggtcacct      360
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atgtttgggt tttttttttt ttgtgtttta ttgagcagaaa gagagacata atgcacagctg      540
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gtaataatgt ggttacggaa ttccaatgtt atagtgaagt gtaatgaaaa acatctctag      660
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tattccagct atcatgctta agctatgtca acagcattta ttgtactaaa tgcataattt      1200
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aatttgtgaa tgcataatga ttgtgtgtta cttttataaa ttgtgaaata tgaataatga      1440
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<210> 116
<211> 1797
<212> DNA
<213> Homo sapiens

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<400> 116
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aatgttttta aatctaagg tttctttgtt tatgttcagg taaggaaact gtgatcatgat      180
ctggaaatgt ttaaaacaa ctgtgttagc atctctgtag cagcaaaact tatagtatga      240
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gagctggcgc ttgtgcacac ttttatttcc atgggattgc atcttagtgc ttaaaacttc      420
tagattgaaa ttgtacagcc agggttacat atgggggact tttaaaagtgt ctttccaaaag      480
agatttcaatt aaccgtttag attagaatat ctttcccaat tgttacagct acataatagc      540
tgcaataatt acaaacctgga gtattagcca catgggttat ttttcaact ttgtttttga      600
atttttttat tgtgtgttat ttaaaatatt acatatgcag ctgggagaaac tacacctttg      660
tgacacatga ttatatattt aattgttaga aaatatttcc tttatatatt tccctaacatt      720
acaaggtgoc ttgttcatca ggaaaacttt tgttttgat tttagacaaga aaggcaacct      780
cagagtttct ttttaagtat agttgacaag agttgacaaa atggaataca acaatgttag      840
ctttttgat cttaagaagt cagttcaaaa atggaataca acaatgttag gagaatactg      900
aatcttgtata agtttagtaag tattatgtat agcatctgtt ttaaaccttt tccattctta      960
tccctagtgt atcagttgat cacactaaga aagcttaaaag attgagcatt tgaataataa      1020
gctcttataa atgattatga tttttgaagg gatattgaaa tcaattgcgc gtgatttccat      1080
ctgtgatgtc aaaaatcaat ttattatcct tgggtcttcc ccccccacca atgcacaaat      1140
aattgtgaag agcttgaaat gacttaaaat gtaatccaaa tgggacaaatc tgataagaat      1200
tctcatgact ggtagttaa taacttaaat tgctaaagct tttagcttga aattatgttt      1260
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agctgtttta aaagtgacca gtagtaagag tcataaatat atgcaattaa agaagttcat      1440
agatttcaaa tgaatgaaa tgtgttatat ggagacatgt cttgtaaaaa gttgaatgta      1500
tgaagtttt ctgtttgtga aaatgtagtt aatgtactca ctgtggaggt cataaggaa      1560

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ctactctttttt	tttaaaagtgg	aacctaatta	aaatatattcc	agaatcaaa	agacttaaat	1620
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gaattttttt	attactagt	acttacatat	taaaaaaaat	ttattattg	ctaaaaaaa	1740
aaaaaaaaaa	aaaaaaaaaa	aaaaaaaaaa	aactagtctt	agatcgccgg	cggccgcg	1797

<210> 117  
 <211> 952  
 <212> DNA  
 <213> Homo sapiens

<400> 117						
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tagccttttt	ccagggaattt	aaaaggagcc	attttttaaa	tgtcaataat	aatttattgg	180
ttattatttt	ttaaagcatt	attatgggtg	cttattatag	gcattggtaaa	agcacttcat	240
ccacattatt	taaaatctcag	aatctatgag	tttggtgaga	tcactgcagt	tttcacagagg	300
aaaaaaacagg	gcagagagaa	cggtaatctc	ctcaagttct	cactcttgct	acttaataga	360
cttagaatct	caaccagat	ctgatgtgta	agtcagtata	agcttctctg	agaaaggagt	420
agagttaagg	tggtgggatgg	ggcttgaaga	cttgatagga	ttatgggttgg	gagtgtaaac	480
tcggagatcc	acagtgcagg	ggaaggaaacc	cacaaaggca	ggaatgcaca	cagcatgtct	540
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agagccatcc	ctagaagggt	atcactgggt	aacctgata	agagttttgg	cctgtgctgt	660
tggtctcacc	ctgtaatccc	agcactttgg	gaggccaagg	caggaggatc	acctgaggtc	720
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aatgtcctga	acgggggagg	cagaggtggc	agtgaagcc	gatggtgcca	ctgactcta	900
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<210> 118  
 <211> 1185  
 <212> DNA  
 <213> Homo sapiens

<400> 118						
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ggaacacacg	catggccatt	cacttccata	tcattccaatg	gctgcttttg	tgctacaatt	180
gccacatg	ccagtggggc	ctgtggcaca	caactgcaga	agtgaaggtt	gtggcgagaa	240
atcactttag	cttcaaaagg	taaaagcatt	actatctgac	cctttccaga	aaaagtgtgc	300
tgacctctgt	tttagagata	caaaactaaca	tacttacaga	taagtgatct	gaatatgaag	360
caaattttca	acataatcgg	ggttgatggg	gaacctggtt	acatatatac	aaatccagag	420
cttaactatg	ccaggtgagg	gctgtgcaga	cgatcacgac	actattctct	tttgcatatg	480
ttttccatac	taaaaagtct	tttgaaaaaa	tcaatgatatt	aggggtttta	atatactgta	540
gtcactttgg	aaaacagtgt	ggcagttcct	cataaagttg	acatagaatt	acctatgac	600
ccagcagttc	cctttctaga	tataccccc	agagaattaa	aaacacacat	tcacacaaaa	660
acctgcacac	aaatgttcc	aggagcattg	ccttaaatagc	aaaacaagcg	aaacaaccca	720
aatgcccac	agggtgacgg	tggtataaaca	cagtgccgtg	tgctccatac	tggaaatgtga	780
ctcagccaca	ggcakaagatg	aagcgctgac	acacgcagca	acacggatga	acctgtgagt	840
cacggagttc	agtgaaagat	accagtcatg	aagtcacaca	cogtatgatg	ccattgacat	900
gaagtgttca	gagcaagtaa	atccttacag	atggaaaggca	gagcgttgac	tgccagggag	960
taggaagtgg	ggggccaggg	gtgactgcta	atgggtatgg	gatttcattt	cggggctggt	1020
ggaaagtggg	cggagccaga	gagtatgtat	agctgcacaa	ctctatgtat	atgctatgaa	1080
tcaccaccca	atggtatatt	tttaaggac	gaatttatgg	tatgtaaaat	gtgtctcaat	1140
aaagctgcta	tcttaaaatt	caaaaaaaa	aaaaaaaact	cgtag		1185

<210> 119

<211> 1098  
 <212> DNA  
 <213> Homo sapiens

<400> 119  
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 ctgtttgaaga acgctctgca gagagcagta gagagggggc agttagaaca gataactggc 180  
 aaaggttgctt cggggacatt ccagggaact cgaccacact ggtgcagagat agtcttctct 240  
 tgacctgctt tggggagagt gtgtcttgat gcttttctct tcctccttgg aaaaacagctg 300  
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 gccattgctg ccatgaatga cccgaagacc tgctctacca ctgctctgaa gaagtatgtc 420  
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 gggaaagcta ggcccttggc taagaaagca cctcctaagg ccaaaaagcc tgccaagaag 840  
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 ttcagagtga aaaagtaaat ttatagggaa aaaaggggat catgatgaaa ttcaaaaatct 1020  
 tattttctaa gcatttttga tatcaagcaa gtggcttccct ttttgagata ttaaaaaaa 1080  
 aaaaaaagg gcggccgc 1098

<210> 120  
 <211> 805  
 <212> DNA  
 <213> Homo sapiens

<400> 120  
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 gtgtttgtgt agaggttgctt gacagcaggt tgtttgctgt atgtaggagt tatccagccc 180  
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 ataaaaagat atggttacta caagtactca gtaagactga taatctgtca tcatcatcct 300  
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 ccttttctatt aatgacccaa ccattattca agagctatgt ctagttaggg acttcagact 480  
 tttgaaagaa atgaagaaat aatgccagat acatgggctc gcacttggaa tcccagctac 540  
 ttgggggaac gagggtggag gaccgcttga gcccaggagt tcgagaccag cctggggcaac 600  
 atagcgaaac cctgcctcag ttttaaaaaa gaaaaaaaga agtagtgaag aaattggaaa 660  
 ggattctcag aagaataatg caaggtggaa aagagcctag aaagaaagg gacagatgct 720  
 gggatttggt cgtcagaaga gatattctagg aaatagcatg gcagccctca agtactagct 780  
 ccacttaaaa aaaaaaaaaa aaaaa 805

<210> 121  
 <211> 3435  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (760)  
 <223> n equals a,t,g, or c  
 <400> 121

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cacttttgcat	cttttggtcc	cgctctgctc	gggatatcac	agagctgccc	gagtgtagta	180
ggggtacccc	ttctacatgg	ctcatgggctt	cccaggggat	gacctctcgg	ctgatgcacat	240
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attggaaaaa	aacgtttcag	actggcgcaa	agtgaagcca	cagcttcaaa	acgcccacgc	420
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cgtgccccag	caactcgcgg	aagacctgac	tgagaaactc	tgacttacc	agcgcagtggt	720
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tgatgggrag	aagtattacc	cgctacatcat	tttraggggg	acatatatcc	ccccggggaa	960
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<210> 122  
 <211> 1020  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (3)  
 <223> n equals a,t,g, or c

<400> 122  
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 aaagtccctg cgaagtgtgt taccatttca gatacaagaa ccgttttatct tcccacgctg 360  
 acgaattttg cgagtggagt gattattttt ccttggtgtt gtaattttat taagttaatt 420  
 ccttggtttg tttctttttc agtacaccag ggggtatata ttccaatatg acatgtacct 480  
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 ttgtactgtc tgatgtttgt aaatagccaa tctccaccag tctgttatac tgttcaaatg 720  
 aatttttttc tatgaacaat ccctttttta ataaatcaaa atgcttaaaa tctgaatgga 780  
 tgggaactaa aactactttg ttgaaacatc aacctgggca gaaaaaaaaa aaaaaaagac 840  
 atgtaaaaat ttgtattctc cagtctgtat atgaaaaaat aggtcatcaa agggaaaaaa 900  
 aataaacttg attaactagt gttaaacaaa aaatagggtt actaaatctc gtgcccgaatt 960  
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<210> 123  
 <211> 1378  
 <212> DNA  
 <213> Homo sapiens

<400> 123  
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 ctagttagtg ggaagagagg ctgttactca cgaactccctc caacagaata ccagaacacg 180  
 gcaggcgagt cagggtgtat taaggatgtg agggccaagaa accagccctc accaagttag 240  
 cccgtgaaat cctttgtctc catcgcacct ctacttttag tcagaagtgg attcaattga 300  
 ggcctagatt tttgattat gtgaatgaac tgaacgtaac caagcaccaa gagagcccta 360  
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1378

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<213> Homo sapiens
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[illegible]

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[illegible]



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&lt;210&gt; 126

&lt;211&gt; 1064

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 126

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&lt;210&gt; 127

&lt;211&gt; 1607

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 127

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aaaaaa						1146

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 <212> DNA  
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<210> 132  
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<400> 132

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 <212> DNA  
 <213> Homo sapiens

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 <212> DNA  
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 <212> DNA  
 <213> Homo sapiens

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tatcctctgc	ccctctatcat	tataaatggt	tgccatgggt	ttctaaaaa	taagtgtttt	180	
accattaatg	tgtagagggc	aaacaaagca	taaagtacta	agggatcatg	cttatctctag	240	
ggtctcacag	aagagaggac	atattttaatt	aatcttgtga	attacagaac	aggttgtgtg	300	
ccagacaccca	agaatcatag	gggttttttt	ttaaaaaacc	taataagaagt	aggtgtgact	360	
ctctctttgg	tctaagagtt	ctaaaggaag	gtaggcatct	gtttaattag	tgggttcacc	420	
ctggctttac	ctctgggttaa	tgtctgtgtt	aataggaagg	aaaaatcact	ttatcttttc	480	
ttccaaagccc	ctccctgctt	gacttaccca	gactgggatt	accagatacc	aggtgattta	540	
tgtggagagt	attttttcacc	tttaaacctc	aagccaagt	taagaaactt	ttgatagcta	600	
tgtctatttt	atatcatgca	ctgagacttt	tttttaagtt	ttttattttt	attaaagaca	660	
cttttgccaaa	aaagtcacct	aagcacact	atttacattt	ctttatagcc	tcttctgac	720	
tctaaacacat	atgcagtttt	aactgttatt	ttcatagttaa	ctgatctttt	gtcttaaggat	780	
ttttacatga	aagcacaaat	tattgagtct	tttgaaaact	atcttttcaga	tttttttaca	840	
gaatgaactt	atgcactgtc	actgtagtat	tctcaaggaa	tatatgtata	cacaaatgta	900	
tgctgtagg	tgggtttttgc	agaaaaacgt	ctctgtcttc	aaaaactctc	atgtctagtc	960	
ttccatagga	aatctctcact	gttttaaccat	gtgaggagcc	taagtcaatt	aacggatcat	1020	
gtctgtacat	tgtgtaattga	atgaaaagca	cataaatgta	atctactttg	aactttgttaa	1080	
aaatgatgtg	tggaggctcat	tctgttttct	ccatctcaag	tctgtgtgtg	gcactgtgtg	1140	
gcaagtgcac	atgtgtgtgt	gtataaacac	atgttaaga	acagaaatata	cttcaaaaaa	1200	
taaacagaaa	tggagacctg	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	aaaaaaaaa	1258	

<210> 138

<211> 1598  
 <212> DNA  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (1067)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1069)  
 <223> n equals a,t,g, or c

<220>  
 <221> SITE  
 <222> (1577)  
 <223> n equals a,t,g, or c

<400> 138

aggaagaac	aaaggttatt	tcttggagaa	aagacaattt	attcaacacc	aacragggac	60
tcatcatatg	ggcacaactc	tggtgtcctt	ctatggagaa	aacctcaagt	aaagttttat	120
tctgcctttr	aaaatgcttc	caaaagtaga	ccctgtcccc	acacagggtca	agactacaga	180
gaaggctttg	tagaaatgtg	tcacctatgt	acacctgcta	cttacacatt	tctctttttg	240
gaaaaatgag	atacttagaa	taacargaaa	attaagacat	actggccctgg	tgccagcaga	300
tggtctttct	atagacaaac	taggttagtg	tggaagatat	aggttaaaat	aaactatgct	360
gttttatatta	tcttcccaac	ctgattggca	gctagacttt	tttagggctt	catttaatgg	420
ccctgttttt	ttcattatta	tatttaatga	tagggcagga	ttctgtatgc	aaagctcttg	480
ttctcaggct	gcttcgcagaa	gaagtgccta	taaattatct	gttgtctaca	tggtacaagg	540
cccatgactc	catctgatgc	ttgttttgtt	aatttcttta	atatttttat	cacggggcag	600
tggtggggct	tggtgctttta	gccacagctg	ttttaagact	tctgatctcc	tgccctgcag	660
gaataggtgg	gaagtcaattg	aatttttaca	ctatagtaat	ttgcattccc	acataagttt	720
gagtgttacg	aaaacattcc	tttaaaagga	tctgtgtctac	acaaaatatg	ccaggacctc	780
acagacaaag	ccattgtctag	aaatgtcatt	ccaatgatca	gatctggaaa	caggctgcga	840
taaccacttt	tcttctctgt	agactcagct	cacctgtata	tttaaacctg	tcttggcatc	900
ttgaaacacc	tatttttact	caggtactca	ttgtcctggt	actgattcac	ctttctgctc	960
cttttcaacc	agttttcccc	caagggggga	aatttttact	aacctctagt	atttgaacaa	1020
ctcaatatatt	gaattgttgc	cccatattgt	tttaacctga	ctgtatnctn	ggtcatctca	1080
aatggcgctc	aaacccagct	actttgcatt	ccagaagttt	ccattccctc	caattccacc	1140
taatttttca	tctgtcctag	ttactggctc	tttcttcatg	tcttatttct	ctgtctttgg	1200
gagcttaaaa	gattttacaa	gacctaat	tggtttctct	ccttggagcc	acagttaacc	1260
tgccaagaag	agtagaaaaat	gggttcaact	cctgttttgc	tcacacaaca	ccctgttgag	1320
tctcatcatc	agctgagcga	tgatgcctta	caggttgcat	agcactggaa	ctttcttaga	1380
gtaacggctc	tgctgccagg	gtttctctgg	gctcattctt	ccactgactt	aattatgatc	1440
ttgctctaac	agagccccag	tacaactatt	ttgcagaatg	gctgttacc	tagaattact	1500
atagcacata	ttgagatata	gttgtactcc	ctagttagata	ggaactgacc	ccaacaataa	1560
acttttgataa	taaaganaaa	aaaaaaaaaa	actctgtag			1598

<210> 139  
 <211> 334  
 <212> PRT  
 <213> Homo sapiens

<400> 139

Met	Phe	Gln	Cys	Gly	Leu	Leu	Gln	Gln	Cys	Thr	Ile	Leu	Met	Ala
1				5				10				15		
Thr	Gly	Val	Pro	Ala	Asp	Ile	Leu	Thr	Glu	Thr	Ile	Asn	Thr	Ser

20 25 30  
 Glu Val Ile Arg Gly Cys Gln Val Asn Gln Asp Tyr Phe Ala Ser Val  
 35 40 45  
 Asn Ala Pro Ser Asn Pro Pro Arg Pro Ala Ile Val Val Leu Leu Met  
 50 55 60  
 Ser Met Val Asn Glu Arg Gln Pro Phe Val Leu Arg Cys Ala Val Leu  
 65 70 75 80  
 Tyr Cys Phe Gln Cys Phe Leu Tyr Lys Asn Gln Lys Gly Gln Gly Glu  
 85 90 95  
 Ile Val Ser Thr Leu Leu Pro Ser Thr Ile Asp Ala Thr Gly Asn Ser  
 100 105 110  
 Val Ser Ala Gly Gln Leu Leu Cys Gly Gly Leu Phe Ser Thr Asp Ser  
 115 120 125  
 Leu Ser Asn Trp Cys Ala Ala Val Ala Leu Ala His Ala Leu Gln Glu  
 130 135 140  
 Asn Ala Thr Gln Lys Glu Gln Leu Leu Arg Val Gln Leu Ala Thr Ser  
 145 150 155 160  
 Ile Gly Asn Pro Pro Val Ser Leu Leu Gln Gln Cys Thr Asn Ile Leu  
 165 170 175  
 Ser Gln Gly Ser Lys Ile Gln Thr Arg Val Gly Leu Leu Met Leu Leu  
 180 185 190  
 Cys Thr Trp Leu Ser Asn Cys Pro Ile Ala Val Thr His Phe Leu His  
 195 200 205  
 Asn Ser Ala Asn Val Pro Phe Leu Thr Gly Gln Ile Ala Glu Asn Leu  
 210 215 220  
 Gly Glu Glu Glu Gln Leu Val Gln Gly Leu Cys Ala Leu Leu Leu Gly  
 225 230 235 240  
 Ile Ser Ile Tyr Phe Asn Asp Asn Ser Leu Glu Ser Tyr Met Lys Glu  
 245 250 255  
 Lys Leu Lys Gln Leu Ile Glu Lys Arg Ile Gly Lys Glu Asn Phe Ile  
 260 265 270  
 Glu Lys Leu Gly Phe Ile Ser Lys His Glu Leu Tyr Ser Arg Ala Ser  
 275 280 285  
 Gln Lys Pro Gln Pro Asn Phe Pro Ser Pro Glu Tyr Met Ile Phe Asp  
 290 295 300  
 His Glu Phe Thr Lys Leu Val Lys Glu Leu Glu Gly Val Ile Thr Lys  
 305 310 315 320  
 Ala Ile Tyr Lys Ser Ser Glu Glu Asp Lys Lys Lys Lys  
 325 330



<210> 140  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 140  
 Met Thr Val Ala Ser Ile Arg His Ile Leu Val Glu Ile Trp Leu Pro  
 1 5 10 15  
 Ile Ala Leu Ala Met Gly Thr Arg Gly Leu Thr Gln Ile Val Ala Val  
 20 25 30  
 Ile Gln Ser Arg Ser Gln Trp Ala Leu Ser Xaa  
 35 40

<210> 141  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals stop translation

<400> 141  
 Met Leu Phe Ile Phe Leu Leu Leu Ile Leu Ser Ile Thr Ala Ser Tyr  
 1 5 10 15  
 Ser Leu Thr Cys Ile Leu Ser Gly Ala Gly Glu Pro Ser Ser Val Ser  
 20 25 30  
 Ala Ser Val Val Ser Gly Pro Gly Phe Cys Leu Ala Ala Leu Leu Leu  
 35 40 45  
 Met Arg Thr Gly Gly Phe Ala Ala Thr Leu Leu Pro Val Ala Pro Thr  
 50 55 60  
 Glu Arg Phe Phe Ser Cys Cys Thr Val Leu Ser Ala Gln Arg Asn Val  
 65 70 75 80  
 Ser Arg Thr Arg Ser Pro Xaa  
 85

<210> 142  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

&lt;222&gt; (122)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 142

Met	Leu	Ser	Thr	Arg	Trp	Met	Gly	Leu	His	Leu	Val	Gln	Ile	Leu	Trp
1				5					10					15	

Arg	Cys	Trp	Thr	Ser	Ser	Ala	Thr	Ile	Thr	Ser	Arg	Lys	Leu	Ser	Thr
			20					25					30		

Ala	Leu	Arg	Ser	Pro	Val	Leu	Ser	Gly	Thr	Gln	Thr	Ser	Arg	Ser	Ser
		35					40					45			

Gly	Asp	Ser	Gly	Trp	Ser	Met	Lys	Thr	Ser	Val	Lys	Ala	Thr	Pro	His
	50					55					60				

Gln	Met	Ser	Leu	Arg	Ser	Gly	Lys	Glu	Thr	Pro	Ser	Ala	Asp	Ile	Pro
	65				70					75				80	

Arg	Ile	His	His	Gln	Leu	Val	Arg	Leu	Arg	His	Gln	Ala	His	Gly	Gly
				85				90						95	

Trp	Ser	Pro	His	Gly	Val	Pro	Glu	Gln	Gly	Thr	Met	Pro	Leu	Val	Leu
			100					105					110		

Pro	Pro	Val	Ser	Cys	Asp	Ile	Gln	Pro	Xaa
		115					120		

&lt;210&gt; 143

&lt;211&gt; 276

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (276)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 143

Met	Ala	Asn	Thr	Gly	Val	Phe	Gly	Phe	Ser	Phe	Leu	Leu	Leu	Thr	Val
1				5					10					15	

Ala	Leu	Leu	Ala	Ser	Tyr	Ser	Val	His	Leu	Leu	Leu	Ser	Met	Cys	Ile
			20					25					30		

Gln	Thr	Ala	Val	Thr	Ser	Tyr	Glu	Asp	Leu	Gly	Leu	Phe	Ala	Phe	Gly
		35					40				45				

Leu	Pro	Gly	Lys	Leu	Val	Val	Ala	Gly	Thr	Ile	Ile	Ile	Gln	Asn	Ile
	50						55					60			

Gly	Ala	Met	Ser	Ser	Tyr	Leu	Leu	Ile	Ile	Lys	Thr	Glu	Leu	Pro	Ala
	65					70					75				80

Ala Ile Ala Glu Phe Leu Thr Gly Asp Tyr Ser Arg Tyr Trp Tyr Leu  
85 90 95

Asp Gly Gln Thr Leu Leu Ile Ile Ile Cys Val Gly Ile Val Phe Pro  
100 105 110

Leu Ala Leu Leu Pro Lys Ile Gly Phe Leu Gly Tyr Thr Ser Ser Leu  
115 120 125

Ser Phe Xaa Phe Met Met Phe Phe Ala Leu Val Val Ile Ile Lys Lys  
130 135 140

Trp Ser Ile Pro Cys Pro Leu Thr Leu Asn Tyr Val Glu Lys Gly Phe  
145 150 155 160

Gln Ile Ser Asn Val Thr Asp Asp Cys Lys Pro Lys Leu Phe His Phe  
165 170 175

Ser Lys Glu Ser Ala Tyr Ala Leu Pro Thr Met Ala Phe Ser Phe Leu  
180 185 190

Cys His Thr Ser Ile Leu Pro Ile Tyr Cys Glu Leu Gln Ser Pro Ser  
195 200 205

Lys Lys Arg Met Gln Asn Val Thr Asn Thr Ala Ile Ala Leu Ser Phe  
210 215 220

Leu Ile Tyr Phe Ile Ser Ala Leu Phe Gly Tyr Leu Thr Phe Tyr Gly  
225 230 235 240

Ser His Ser Val Ala Gln Val Gly Val Gln Trp Cys Asp Leu Ser Ser  
245 250 255

Leu Gln Pro Leu Pro Pro Gly Leu Lys Gln Ser Ser His Leu Ser Leu  
260 265 270

Gln Ser Ser Xaa  
275

<210> 144

<211> 195

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (138)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (195)

<223> Xaa equals stop translation

<400> 144

Met Lys Leu Ala Ser Gly Phe Leu Val Leu Trp Leu Ser Leu Gly Gly  
1 5 10 15

```

<210> 145
<211> 183
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (183)
<223> Xaa equals stop translation

<400> 145
Met Leu Leu Leu Cys His Ala Leu Ala Ile Ala Val Val Gln Ile Val
 1             5             10             15

Ile Phe Ser Glu Ser Trp Ala Phe Ala Lys Asn Ile Asn Phe Tyr Asn
      20             25             30

Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser Phe Lys Cys
      35             40             45

Phe Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala

```

50                      55                      60  
 Glu Asp Lys Trp Cys Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His  
 65                      70                      75                      80  
 His Phe Thr Ser His Gly Arg Ser Thr Ser Ile Thr Lys Lys Cys Ala  
 85                      90                      95  
 Ser Arg Ser Glu Cys His Phe Val Gly Cys His His Ser Arg Asp Ser  
 100                      105                      110  
 Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile Cys Asn Val  
 115                      120                      125  
 Glu Leu Pro Thr Asn His Thr Asn Ala Val Phe Ala Val Met His Ala  
 130                      135                      140  
 Gln Arg Thr Ser Gly Ser Ser Ala Pro Thr Leu Tyr Leu Thr Ser Ala  
 145                      150                      155                      160  
 Cys Leu Gly Leu Cys Ala Ser Ile Ala Val Met Pro Pro Phe Leu Gly  
 165                      170                      175  
 Glu Ala Glu Thr Ser Leu Xaa  
 180  
 <210> 146  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals stop translation  
 <400> 146  
 Met Leu Arg Gly Thr Met Thr Ala Trp Arg Gly Met Arg Pro Glu Val  
 1                      5                      10                      15  
 Thr Leu Ala Cys Leu Leu Leu Ala Thr Ala Gly Cys Phe Ala Asp Leu  
 20                      25                      30  
 Asn Glu Val Pro Gln Val Thr Val Gln Pro Ala Ser Thr Val Gln Lys  
 35                      40                      45  
 Pro Gly Gly Thr Val Ile Leu Gly Cys Val Val Glu Pro Pro Arg Met  
 50                      55                      60  
 Asn Val Thr Trp Arg Leu Asn Gly Lys Glu Leu Asn Gly Ser Asp Asp  
 65                      70                      75                      80  
 Ala Leu Gly Val Leu Ile Thr His Gly Thr Leu Val Ile Thr Ala Leu  
 85                      90                      95  
 Asn Asn His Thr Val Gly Arg Tyr Gln Cys Val Ala Arg Met Pro Ala  
 100                      105                      110

Gly Ala Val Ala Thr Cys Gln Pro Leu Xaa  
115 120

<210> 147  
<211> 267  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (267)  
<223> Xaa equals stop translation

<400> 147  
Met Trp Trp Phe Gln Gln Gly Leu Ser Phe Leu Pro Ser Ala Leu Val  
1 5 10 15  
Ile Trp Thr Ser Ala Ala Phe Ile Phe Ser Tyr Ile Thr Ala Val Thr  
20 25 30  
Leu His His Ile Asp Pro Ala Leu Pro Tyr Ile Ser Asp Thr Gly Thr  
35 40 45  
Val Ala Pro Glu Lys Cys Leu Phe Gly Ala Met Leu Asn Ile Ala Ala  
50 55 60  
Val Leu Cys Ile Ala Thr Ile Tyr Val Arg Tyr Lys Gln Val His Ala  
65 70 75 80  
Leu Ser Pro Glu Glu Asn Val Ile Ile Lys Leu Asn Lys Ala Gly Leu  
85 90 95  
Val Leu Gly Ile Leu Ser Cys Leu Gly Leu Ser Ile Val Ala Asn Phe  
100 105 110  
Gln Lys Thr Thr Leu Phe Ala Ala His Val Ser Gly Ala Val Leu Thr  
115 120 125  
Phe Gly Met Gly Ser Leu Tyr Met Phe Val Gln Thr Ile Leu Ser Tyr  
130 135 140  
Gln Met Gln Pro Lys Ile His Gly Lys Gln Val Phe Trp Ile Arg Leu  
145 150 155 160  
Leu Leu Val Ile Trp Cys Gly Val Ser Ala Leu Ser Met Leu Thr Cys  
165 170 175  
Ser Ser Val Leu His Ser Gly Asn Phe Gly Thr Asp Leu Glu Gln Lys  
180 185 190  
Leu His Trp Asn Pro Glu Asp Lys Gly Tyr Val Leu His Met Ile Thr  
195 200 205  
Thr Ala Ala Glu Trp Ser Met Ser Phe Ser Phe Phe Gly Phe Phe Leu  
210 215 220  
Thr Tyr Ile Arg Asp Phe Gln Lys Ile Ser Leu Arg Val Glu Ala Asn  
225 230 235 240

Leu His Gly Leu Thr Leu Tyr Asp Thr Ala Pro Cys Pro Ile Asn Asn  
245 250 255

Glu Arg Thr Arg Leu Leu Ser Arg Asp Ile Xaa  
260 265

<210> 148  
<211> 92  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (92)  
<223> Xaa equals stop translation

<400> 148  
Met Leu Cys His Pro His Val His His His Leu Val Cys Leu Leu Ala  
1 5 10 15

Thr Leu Thr Phe Ser Leu Asn Ala Ser Cys Ala Glu Gln Thr Phe His  
20 25 30

Ser Gln Gln Ser Asn Gly Glu Phe Met Ala Thr Leu Pro Ser Ile Ser  
35 40 45

Lys Gln Phe Gly Val Ile Val Trp Lys Pro Gln Arg Lys Asp Val Ile  
50 55 60

Arg Leu Pro Val Ala Leu Ser Phe Ser Met Gly Leu Gly Leu Leu Ser  
65 70 75 80

Pro Ala Leu Gly Arg Phe Leu Ala Ser Glu Leu Xaa  
85 90

<210> 149  
<211> 109  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (109)  
<223> Xaa equals stop translation

<400> 149  
Met Ala Ile Leu Leu Ala Cys Phe Thr Ala Val Leu Ala Phe Ile Cys  
1 5 10 15

Leu Gln Phe Trp Cys Val Arg Cys His Glu Pro Arg Trp Ser Tyr Arg  
20 25 30

Ala Gly His Met Glu Glu Ala Asn Gly Leu Val Arg Trp Pro Glu Glu  
35 40 45

Ala Pro Asp Leu Gly Gln Arg Glu Glu Asp Leu Gln Gly Leu Pro Leu

Phe Phe Ala Phe Ser Leu Ser Ser Ser Leu Ser Phe Val His Tyr Glu  
20 25 30



Leu Gly His Ser Arg Ile Ala Gly Thr Lys Ala Val Arg Glu Thr Leu  
50 55 60

Ala Ser Arg Ile Val Leu Phe Gly Thr Ser Ala Leu Ile Pro Glu Val  
 65 70 75 80  
 Phe Thr Tyr Phe Phe Lys Arg Thr Gln Tyr Phe Arg Lys Asn Pro Gly  
 85 90 95  
 Ser Leu Trp Ile Leu Lys Leu Ser Cys Thr Val Leu Ala Met Gly Leu  
 100 105 110  
 Met Val Pro Phe Ser Phe Ser Ile Phe Pro Gln Ile Gly Gln Ile Gln  
 115 120 125  
 Tyr Cys Ser Leu Glu Glu Lys Ile Gln Ser Pro Thr Glu Glu Thr Glu  
 130 135 140  
 Ile Phe Tyr His Arg Gly Val Xaa  
 145 150

<210> 154

<211> 61

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals stop translation

<400> 154

Met Leu Arg Val Ala Gly Val Leu Gln Phe Leu Pro Leu Ser Tyr Gly  
 1 5 10 15

Thr Lys Val Ala Ser Leu Trp Asn Thr Tyr Glu Asn Val Val Met Pro  
 20 25 30

Pro Ser Phe Thr Thr Thr Leu Val Leu Pro Leu Leu Ser His Glu Phe  
 35 40 45

Tyr Asn Tyr Ser Tyr Pro Phe Ala Cys Asp Gln Lys Xaa  
 50 55 60

<210> 155

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (89)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (91)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (94)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (97)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (98)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (123)  
 <223> Xaa equals stop translation

<400> 155  
 Met His Arg Ser Glu Pro Phe Leu Lys Met Ser Leu Leu Ile Leu Leu  
           1          5          10          15  
 Phe Leu Gly Leu Ala Glu Ala Cys Thr Pro Arg Glu Val Asn Leu Leu  
                   20                  25                  30  
 Lys Gly Ile Ile Gly Leu Met Ser Arg Leu Ser Pro Asp Glu Ile Leu  
                   35                  40                  45  
 Gly Leu Leu Ser Leu Gln Val Leu His Glu Glu Thr Ser Gly Cys Lys  
           50                  55                  60  
 Glu Glu Val Lys Pro Phe Ser Gly Thr Thr Pro Ser Arg Lys Pro Leu  
           65                  70                  75                  80  
 Pro Lys Arg Glu Glu His Val Glu Xaa Pro Xaa Asn Ala Xaa Thr Trp  
                   85                  90                  95  
 Xaa Xaa Thr Tyr Leu Phe Val Ser Tyr Asn Lys Gly Asp Trp Phe Thr  
                   100                  105                  110  
 Phe Ser Ser Gln Val Leu Leu Pro Leu Leu Xaa  
           115                  120

<210> 156  
 <211> 55  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals stop translation

<400> 156  
 Met Ser Pro Cys Ala His Ile Cys Leu Tyr Val Leu Val Phe Leu Cys  
           1          5          10          15

Asn Val Thr Arg Cys Lys Cys Val Arg Ala Phe Thr Thr Trp Asp Thr  
20 25 30

Glu Lys Val Lys Tyr Phe Met Ala His Trp Ser Lys Leu Lys Arg Val  
35 40 45

Arg Gly Thr Arg Val Glu Xaa  
50 55

<210> 157

<211> 111

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (93)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals stop translation

<400> 157

Met Phe Leu Ala Ser Trp Leu Leu Phe Cys Ile Val Ala Pro Lys Asp  
1 5 10 15

Asp Ala His Leu Ser Phe Ile Gln Cys Lys Asp Ile Trp Lys Asp Asn  
20 25 30

Arg Lys Tyr Ser Cys Phe His Phe Lys Ser Asp Gln Leu Leu Glu Leu  
35 40 45

Ala Ser Lys Ala Cys Thr Ser Phe Gln Ala Gln Ser Arg Ser Phe Thr  
50 55 60

Ala Gly Ala Val Pro Ser Glu His Pro Glu Leu Pro Cys Gly Ser Gln  
65 70 75 80

Gln Leu Cys Cys Gly Cys Thr Ala Arg Leu Gly Gly Xaa Trp Ile Gly  
85 90 95

Ala Ser Arg Cys Gly Ser Gly Ser Ala Phe Leu Ala Ser Pro Xaa  
100 105 110

<210> 158

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

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<210> 159
<211> 82
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (82)
<223> Xaa equals stop translation

<400> 159
Met Phe His Phe Gly Leu Trp Asp Leu His Phe Phe Leu Ile Val Met
 1              5              10              15
Ala His Arg Asp Asp Cys Ser Phe Lys Gly Gly Cys Gly Leu Leu Glu
              20              25              30
Arg Phe Gln Cys Pro His Thr Ser Phe Ser Ser Ala Ser Gln Lys Arg
              35              40              45
Leu Ala Asp Gly Met Glu Cys Leu Cys Glu Ile Glu Arg Thr Gln Thr
              50              55              60
Arg Ile Arg Lys Ile Cys Leu Pro Thr Leu His Gly His Leu Leu Ala
              65              70              75              80
Val Xaa

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<210> 160
<211> 156
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (108)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (113)
<223> Xaa equals any of the naturally occurring L-amino acids

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<220>  
 <221> SITE  
 <222> (156)  
 <223> Xaa equals stop translation  
  
 <400> 160  
 Met Met Ala Arg Gln Thr Gly Val Phe Tyr Leu Thr Leu Val Leu Ile  
   1          5          10          15  
 Leu Val Thr Ser Gly Leu Phe Phe Ala Phe Asp Cys Pro Tyr Leu Ala  
           20          25          30  
 Val Lys Ile Thr Pro Ala Ile Pro Ala Val Ala Gly Ile Leu Phe Phe  
           35          40          45  
 Phe Val Met Gly Thr Leu Leu Arg Thr Ser Phe Ser Asp Pro Gly Val  
   50          55          60  
 Leu Pro Arg Ala Thr Pro Asp Glu Ala Ala Asp Leu Glu Arg Gln Ile  
   65          70          75          80  
 Gly Asn Thr Glu Ser Leu Pro Met Ala Ser Gly His Phe Pro Pro Gly  
           85          90          95  
 Pro Ser Tyr Ser Gly Glu Gly Arg Pro Arg Ala Xaa Gln Glu Glu Leu  
          100         105         110  
 Xaa Ala Gly Lys Glu Gly Gly Gln Lys Ser Ala Phe Leu Ser Ser Leu  
          115         120         125  
 Gly Gly Gln Asp Glu Leu Lys Lys Arg Cys Asp Ile Arg Leu Glu Gly  
   130         135         140  
 Gln Val Ser Trp Arg Gln Asp Cys Arg Pro Thr Xaa  
  145         150         155

<210> 161  
 <211> 295  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (295)  
 <223> Xaa equals stop translation  
  
 <400> 161  
 Met Arg Leu Asp Lys Pro Ile Gly Thr Trp Leu Leu Tyr Leu Pro Cys  
   1          5          10          15  
 Thr Trp Ser Ile Gly Leu Ala Ala Glu Pro Gly Cys Phe Pro Asp Trp  
           20          25          30  
 Tyr Met Leu Ser Leu Phe Gly Thr Gly Ala Ile Leu Met Arg Gly Ala  
   35          40          45  
 Gly Cys Thr Ile Asn Asp Met Trp Asp Gln Asp Tyr Asp Lys Lys Val  
   50          55          60

Thr Arg Thr Ala Asn Arg Pro Ile Ala Ala Gly Asp Ile Ser Thr Phe  
 65 70 75 80  
 Gln Ser Phe Val Phe Leu Gly Gly Gln Leu Thr Leu Ala Leu Gly Val  
 85 90 95  
 Leu Leu Cys Leu Asn Tyr Tyr Ser Ile Ala Leu Gly Ala Gly Ser Leu  
 100 105 110  
 Leu Leu Val Ile Thr Tyr Pro Leu Met Lys Arg Ile Ser Tyr Trp Pro  
 115 120 125  
 Gln Leu Ala Leu Gly Leu Thr Phe Asn Trp Gly Ala Leu Leu Gly Trp  
 130 135 140  
 Ser Ala Ile Lys Gly Ser Cys Asp Pro Ser Val Cys Leu Pro Leu Tyr  
 145 150 155 160  
 Phe Ser Gly Val Met Trp Thr Leu Ile Tyr Asp Thr Ile Tyr Ala His  
 165 170 175  
 Gln Asp Lys Arg Asp Asp Val Leu Ile Gly Leu Lys Ser Thr Ala Leu  
 180 185 190  
 Arg Phe Gly Glu Asn Thr Lys Pro Trp Leu Ser Gly Phe Ser Val Ala  
 195 200 205  
 Met Leu Gly Ala Leu Ser Leu Val Gly Val Asn Ser Gly Gln Thr Ala  
 210 215 220  
 Pro Tyr Tyr Ala Ala Leu Gly Ala Val Gly Ala His Leu Thr His Gln  
 225 230 235 240  
 Ile Tyr Thr Leu Asp Ile His Arg Pro Glu Asp Cys Trp Asn Lys Phe  
 245 250 255  
 Ile Ser Asn Arg Thr Leu Gly Leu Ile Val Phe Leu Gly Ile Val Leu  
 260 265 270  
 Gly Asn Leu Trp Lys Glu Lys Lys Thr Asp Lys Thr Lys Lys Gly Ile  
 275 280 285  
 Glu Asn Lys Ile Glu Asn Xaa  
 290 295

&lt;210&gt; 162

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (60)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 162

Met Gly Pro Phe Leu Leu Val Phe Leu Phe Pro Ile Leu Arg Val Cys

1	5	10	15
Gly Ile Ile Arg Glu Pro Thr Gln Asp Trp Ser Val Leu Leu Glu Arg			
	20	25	30
Ala Arg Leu Thr Ala Pro Gly Gln Pro Pro Ala Leu Phe Pro Leu Glu			
	35	40	45
Ser Gly Pro Met Ala Thr Ala Gln Asn Thr Ser Xaa			
	50	55	60

<210> 163  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (30)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (32)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (101)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (115)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals stop translation

<400> 163
Met Cys Ser His Ser Thr Leu Ile His Leu Tyr Leu Val Leu Pro Phe
1 5 10 15
Phe Phe Leu Phe Leu Pro Ser Ser Phe Pro Phe Pro Ser Xaa Ser Xaa
20 25 30
Ser Ser Ile Leu Pro Ser Leu Arg Leu Pro Pro Phe Phe Pro Pro Ser
35 40 45
Leu Phe Leu His Ser Ser Leu Pro Pro Ser Leu Ser His Pro Leu Gly
50 55 60



Leu Ser Ile Thr Ser Ser Arg Gln Ser Phe Leu Asp Tyr His His Leu  
65 70 75 80

Cys Thr Lys His Leu Ser Xaa Thr Leu Cys Gly Leu Ile Tyr His Cys  
85 90 95

Leu Asn Ile Phe Xaa Thr Arg Ala Val Met Trp His Met Gln Val Ser  
100 105 110

Phe Leu Xaa Ile His Trp Leu Leu Pro Xaa  
115 120

<210> 164

<211> 73

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (73)

<223> Xaa equals stop translation

<400> 164

Met Ser Ile Tyr His Val Cys Leu Ile Leu Leu Tyr Ile Thr Ser  
1 5 10 15

His Ser His Gln Asn Met Ser Ser Cys Leu Gln Val Pro Leu Ser Leu  
20 25 30

Leu Ser Cys Pro Leu Lys Gly Glu His Leu Ser Gln Phe Ala Gly Asp  
35 40 45

His Ser Leu Pro Glu Val Arg Asp Arg Asn His His Cys Ile Leu Phe  
50 55 60

Lys Glu Ser His Gln Lys Arg Lys Xaa  
65 70

<210> 165

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (123)

<223> Xaa equals stop translation

<400> 165

Met Leu Ala Asn Phe Thr Leu Phe Ile Leu Thr Leu Ile Ser Phe Leu  
1 5 10 15

Leu Leu Val Cys Ser Pro Cys Lys His Leu Lys Met Met Gln Leu His  
20 25 30

Gly Lys Gly Ser Gln Asp Leu Ser Thr Lys Val His Ile Lys Pro Leu

35                      40                      45  
 Gln Thr Val Ile Ser Phe Leu Met Leu Phe Ala Ile Tyr Phe Leu Cys  
   50                      55                      60  
 Ile Ile Thr Ser Thr Trp Asn Pro Arg Thr Gln Gln Ser Asn Leu Val  
   65                      70                      75                      80  
 Phe Leu Leu Tyr Gln Thr Leu Ala Ile Met Tyr Pro Ser Phe His Ser  
                     85                      90                      95  
 Phe Ile Leu Ile Met Arg Ser Arg Lys Leu Lys Gln Thr Ser Leu Ser  
                     100                      105                      110  
 Val Leu Cys Gln Val Thr Cys Trp Val Lys Xaa  
                     115                      120

&lt;210&gt; 166

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (143)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 166

Met Pro Gly Pro Cys Leu Ser Gln Gln His Pro Phe Leu Ser Leu Ser  
   1                      5                      10                      15  
 Leu Phe Pro Phe Cys Leu Trp Ile Cys Leu Ala Arg Val Pro Gly Val  
                     20                      25                      30  
 Arg Asn Ile Cys Lys Thr Gln Pro Ala Pro Ser Gln Pro Ser Leu Leu  
                     35                      40                      45  
 Gly Leu Gly Leu Ser His Pro Ala Ala Gly Thr Thr Asp Ala Gly Thr  
   50                      55                      60  
 Gln Ser Leu Pro Arg Ser Gln His Lys Cys Thr Ser Ala Leu Trp Gly  
   65                      70                      75                      80  
 Leu Cys Pro Ala Gln Arg Pro Leu Leu Leu Pro Ala His Ile His Ser  
                     85                      90                      95  
 Ser Gly His Gly Ala Pro Gln Glu Leu Gln Ser His Leu Ser His Arg  
                     100                      105                      110  
 Leu Pro Ala Ser Ala Ser Leu Ser Met Met Ser Pro Phe Ser Glu Ala  
                     115                      120                      125  
 Trp Thr His Pro Ser Leu Ser Leu Gly Pro Ala Pro Ser His Xaa . .  
                     130                      135                      140

&lt;210&gt; 167

&lt;211&gt; 117

<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (117)  
 <223> Xaa equals stop translation

<400> 167  
 Met Pro Gly Gly Thr Arg Cys Arg Val Leu Leu Leu Ser Leu Thr Phe  
 1 5 10 15  
 Gly Thr Ser Met Ala Cys Gly Asn Val Gly Leu Arg Leu Cys Pro Trp  
 20 25 30  
 Thr Trp His Asn Trp Leu Leu Pro Pro His Leu Cys Ser Xaa Trp Pro  
 35 40 45  
 Cys Arg Arg Cys Cys Trp Ala Ala Ala Thr Thr His Phe Ser Trp Pro  
 50 55 60  
 Pro Trp Val Arg Ser Ala Trp Gly Pro Pro Ala Ala Trp Leu Glu Ser  
 65 70 75 80  
 Ser Gly His Pro Leu Pro Ala Val Ala Ser Cys Ser Gln Pro Pro Ala  
 85 90 95  
 Ser Ala Asp Ser Ser Arg Phe Ser Lys Val Pro Cys Cys Arg Arg Arg  
 100 105 110  
 Gly Trp Thr Arg Xaa  
 115

<210> 168  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 168  
 Met Ser Val Cys Leu Pro Leu His Leu Pro Phe Leu Met Leu Ala Lys  
 1 5 10 15  
 Val Ala Thr Ser Phe Cys Arg Trp Gln Leu Thr Leu Phe Val Ser Thr  
 20 25 30  
 Phe Tyr Lys Asp Ala Leu Val His Thr Val Asn Asp Arg Asn Gln Glu  
 35 40 45

Ala Glu Leu Glu Ala Leu Lys Lys Ser Cys Xaa  
 50 55

<210> 169  
 <211> 126  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (126)  
 <223> Xaa equals stop translation

<400> 169  
 Met Lys Ala Leu Met Leu Leu Thr Leu Ser Val Leu Leu Cys Trp Val  
 1 5 10 15  
 Ser Ala Asp Ile Arg Cys His Ser Cys Tyr Lys Val Pro Val Leu Gly  
 20 25 30  
 Cys Val Asp Arg Gln Ser Cys Arg Leu Glu Pro Gly Gln Gln Cys Leu  
 35 40 45  
 Thr Thr His Ala Tyr Leu Gly Lys Met Trp Val Phe Ser Asn Leu Arg  
 50 55 60  
 Cys Gly Thr Pro Glu Glu Pro Cys Gln Glu Ala Phe Asn Gln Thr Asn  
 65 70 75 80  
 Arg Lys Leu Gly Leu Thr Tyr Asn Thr Thr Cys Cys Asn Lys Asp Asn  
 85 90 95  
 Cys Asn Ser Ala Gly Pro Arg Pro Thr Pro Ala Leu Gly Leu Val Phe  
 100 105 110  
 Leu Thr Ser Leu Ala Gly Leu Gly Leu Trp Leu Leu His Xaa  
 115 120 125

<210> 170  
 <211> 87  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals stop translation

<400> 170  
 Met Phe Leu Val Ala Val Trp Trp Arg Phe Gly Ile Leu Ser Ile Cys  
 1 5 10 15  
 Met Leu Cys Val Gly Leu Val Leu Gly Phe Leu Ile Ser Ser Val Thr  
 20 25 30  
 Phe Phe Thr Pro Leu Gly Asn Leu Lys Ile Phe His Asp Asp Gly Val  
 35 40 45

Phe Trp Val Thr Phe Ser Cys Ile Ala Ile Leu Ile Pro Val Val Phe  
50 55 60

Met Gly Cys Leu Arg Ile Leu Asn Ile Leu Thr Cys Gly Ser His Trp  
65 70 75 80

Ala Pro Ile Arg Trp Phe Xaa  
85

<210> 171

<211> 63

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (54)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (63)

<223> Xaa equals stop translation

<400> 171

Met Val Thr Gly Phe Phe Phe Ile Leu Met Thr Val Leu Trp Phe Xaa  
1 5 10 15

Arg Glu Pro Gly Phe Val Pro Gly Trp Asp Ser Phe Phe Glu Lys Lys  
20 25 30

Gly Tyr Arg Thr Asp Ala Thr Val Ser Val Phe Leu Gly Phe Leu Leu  
35 40 45

Phe Leu Ile Pro Ala Xaa Glu Ala Leu Leu Trp Glu Lys Glu Xaa  
50 55 60

<210> 172

<211> 48

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (48)

<223> Xaa equals stop translation

<400> 172

Met Ser Gln Leu Cys Phe Ser Leu Leu Leu Ser Ser Thr Cys His Gly  
1 5 10 15

Gly Val Ala Ser Leu Leu Thr Ser Asp Leu Ser Ser Gln Ser His Arg  
20 25 30

Phe Ser Ile Cys Thr Asn Val Asn His Ser Lys Tyr Ser Ser Leu Xaa  
35 40 45

<210> 173

<211> 137

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (84)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (137)

<223> Xaa equals stop translation

<400> 173

Met Leu Phe Ser Leu Arg Glu Leu Val Gln Trp Leu Gly Phe Ala Thr  
1 5 10 15

Phe Glu Ile Phe Val His Leu Leu Ala Leu Leu Val Phe Ser Val Leu  
20 25 30

Leu Ala Leu Arg Val Asp Gly Leu Val Pro Gly Leu Ser Trp Trp Asn  
35 40 45

Val Phe Val Pro Phe Phe Ala Ala Asp Gly Leu Ser Thr Tyr Phe Thr  
50 55 60

Thr Ile Val Ser Val Arg Leu Phe Gln Asp Gly Glu Lys Arg Leu Ala  
65 70 75 80

Val Leu Arg Xaa Phe Trp Val Leu Thr Val Leu Ser Leu Lys Phe Val  
85 90 95

Phe Glu Met Leu Leu Cys Gln Lys Leu Ala Glu Gln Thr Arg Glu Leu  
100 105 110

Trp Phe Gly Leu Ile Thr Ser Pro Leu Phe Ile Leu Leu Gln Leu Leu  
115 120 125

Met Ile Arg Ala Cys Arg Val Asn Xaa  
130 135

<210> 174

<211> 89

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (40)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (89)  
 <223> Xaa equals stop translation  
  
 <400> 174  
 Met Glu Leu Ser Phe Val Arg Arg Leu Leu Leu Phe Thr Phe Phe Phe  
 1 5 10 15  
  
 Ser Thr Phe Ser Pro Pro Pro Pro Thr Pro Cys Leu Glu Gly Leu Met  
 20 25 30  
  
 Ser Cys Leu Pro Ser Pro Leu Xaa Lys Asn Thr Ala Gly Ser Gln Thr  
 35 40 45  
  
 Lys Ser Leu Arg Glu Ile Gly Thr Gly Ile Ser Asp Thr His Val Ser  
 50 55 60  
  
 Pro Ser Pro Ala Gln Ala Pro Leu Cys Ser Arg Ser Pro Thr Trp Asp  
 65 70 75 80  
  
 Ser Ser Asp Pro Asn Ser Met Asp Xaa  
 85  
  
 <210> 175  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (58)  
 <223> Xaa equals stop translation  
  
 <400> 175  
 Met Thr Met Val Met Glu Gln Val Tyr Leu Met Ser Phe Leu Leu Leu  
 1 5 10 15  
  
 Leu Leu Arg Thr Met Met Lys Ala His Trp Thr Tyr Thr Leu Gly Trp  
 20 25 30  
  
 Thr Val Leu Phe Leu Thr Ala Leu Pro Asn Pro Val Tyr His Gln Glu  
 35 40 45  
  
 Ile Val Trp Thr Tyr Met Lys Arg Ser Xaa  
 50 55  
  
 <210> 176  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

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<220>
<221> SITE
<222> (64)
<223> Xaa equals stop translation

<400> 176
Met Asp Thr Asp Asn Gly Gly Arg His Phe Lys Pro Phe Lys Leu Val
 1   5   10   15

Leu Phe Val Val Leu Leu Ile Lys Ile Leu Leu Ile Leu Ala Lys Thr
      20      25      30

Asn Cys Cys Asp Lys Leu Val Phe Phe Gly Cys Phe Lys His Thr Leu
      35      40      45

Thr Asn Phe Leu Ile Pro Leu Leu Val Pro Pro Ile Val Leu Lys Xaa
 50      55      60

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<210> 177
<211> 61
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (61)
<223> Xaa equals stop translation

<400> 177
Met Cys Leu Trp Gly Gln Ala Asn Leu Gly Leu Ile Leu Phe Gln His
 1   5   10   15

Cys Leu Thr Lys Phe Met Gly Gly Tyr Cys Phe Gly Leu Gly Ser Cys
      20      25      30

Thr Arg Pro Leu Arg Asp Gln Thr Lys Met Glu Ser Leu Ile Leu Lys
      35      40      45

Leu Gln Val Thr Glu Pro Lys Leu Ser Cys Phe Ile Xaa
 50      55      60

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<210> 178
<211> 104
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (104)
<223> Xaa equals stop translation

<400> 178
Met Gly Met Ala Gly Ala Leu Ser Ile Leu Leu Phe Ser Leu Pro Ser
 1   5   10   15

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His Gly Trp Pro Ser Pro Pro Lys Pro Pro Phe Pro Cys Cys Gln Pro  
 20 25 30  
 Leu Cys His Ser Leu Ile Leu Gly Arg Arg Lys Gly Arg Phe Glu Gly  
 35 40 45  
 Glu Gly Glu Lys Ala Tyr Gly Trp Val Trp Phe Leu Pro Phe Pro Glu  
 50 55 60  
 Gly Leu Thr Val Pro Gly Trp Pro Gln Gly Arg Gln Gly Pro His Tyr  
 65 70 75 80  
 Ala Cys Ala Leu Val Lys Val Thr Pro Ala Ile Tyr Gln Gln Pro Trp  
 85 90 95  
 His Val Pro Ala Pro Gln Glu Xaa  
 100

<210> 179

<211> 293

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (293)

<223> Xaa equals stop translation

<400> 179

Met Leu Arg Val Leu Cys Leu Leu Arg Pro Trp Arg Pro Leu Arg Ala  
 1 5 10 15

Arg Gly Cys Ala Ser Asp Gly Ala Ala Gly Gly Ser Glu Ile Gln Val  
 20 25 30

Arg Ala Leu Ala Gly Pro Asp Gln Gly Ile Thr Glu Ile Leu Met Asn  
 35 40 45

Arg Pro Ser Ala Arg Asn Ala Leu Gly Asn Val Phe Val Ser Glu Leu  
 50 55 60

Leu Glu Thr Leu Ala Gln Leu Arg Glu Asp Arg Gln Val Arg Val Leu  
 65 70 75 80

Leu Phe Arg Ser Gly Val Lys Gly Val Phe Cys Ala Gly Ala Asp Leu  
 85 90 95

Lys Glu Arg Glu Gln Met Ser Glu Ala Glu Val Gly Val Phe Val Gln  
 100 105 110

Arg Leu Arg Gly Leu Met Asn Asp Ile Ala Ala Phe Pro Ala Pro Thr  
 115 120 125

Ile Ala Ala Met Asp Gly Phe Ala Leu Gly Gly Gly Leu Glu Leu Ala  
 130 135 140

Leu Ala Cys Asp Leu Arg Val Ala Ala Ser Ser Ala Val Met Gly Leu

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<210> 180
<211> 46
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (46)
<223> Xaa equals stop translation

<400> 180
Met Leu Ser Ser Leu Tyr Leu Leu Leu Met Pro Pro Tyr Lys Phe Thr
 1              5              10              15

Gly Glu Leu His Pro Pro Val Ala Ala Thr Cys Leu Leu Thr Val Leu
      20              25              30

Leu Gly Cys Leu Ile Gly Val Ser Asp Gly Trp Ile Xaa
      35              40              45

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<210> 181
<211> 47
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (47)
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<223> Xaa equals stop translation

<400> 181

Met Cys Ile Pro Glu Ala Leu Gly Lys Asn Ser Leu Phe Leu Ser Ser  
1 5 10 15

Thr Phe Leu Trp Leu Leu Ala Phe Phe Gly Leu Trp Ser His His Ser  
20 25 30

Tyr Leu Glu Gly Gln His Leu Gln Ile Cys Phe Phe Phe Thr Xaa  
35 40 45

<210> 182

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals stop translation

<400> 182

Met Thr Thr Ser Leu Phe Gly Leu Val Cys Val Val Cys Gln Gly Ala  
1 5 10 15

Gly Val Ser Ala Phe Thr Gln Val Asn Leu Phe Ser Phe Ser Leu Val  
20 25 30

Ile Val Lys Lys Gln Asn Lys Thr Ser Cys Glu Pro Phe Gly Thr Ser  
35 40 45

Gly Lys Val Pro Leu Leu Xaa  
50 55

<210> 183

<211> 67

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (67)

<223> Xaa equals stop translation

<400> 183

Met Leu Ile Tyr Trp Leu Gln Ser Ser Phe Ile Leu Ser Ala Phe Val  
1 5 10 15

Leu Ile Asn Ser Pro Val Thr Thr Gly Ile Gln Lys Ser Cys Cys Lys  
20 25 30

Phe Phe Pro Val Ser Ile Asn Leu Cys Phe Ala Ser Leu His Arg Met  
35 40 45

Lys Val Val Thr Leu Val Ala Leu Gln Trp Leu Asn Ile Ala Leu Arg  
50 55 60

Ser Ser Xaa  
65

<210> 184  
<211> 51  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (51)  
<223> Xaa equals stop translation

<400> 184  
Met Val Cys Cys Gly Phe Phe Leu Leu Trp Ser Arg Val Arg Ser Tyr  
1 5 10 15

Met Lys Leu Ser Gly His Arg Trp Ser Ser Ser Cys Pro His His Cys  
20 25 30

Tyr Ser Lys Cys Gly Leu His Thr Ser Asn Gly Lys Ser Ser Val His  
35 40 45

Thr Val Xaa  
50

<210> 185  
<211> 91  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (29)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (30)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (65)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (91)  
<223> Xaa equals stop translation

<400> 185  
Met Leu Arg Cys Ser Phe Ser Ser Phe Leu Leu Cys His Thr Ile Leu  
1 5 10 15

Leu Phe Leu Gly Ser Ser Ala His Leu Leu Val Glu Xaa Xaa Val Trp

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<210> 186
<211> 55
<212> PRT
<213> Homo sapiens
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<210> 187
<211> 64
<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (26)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (41)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (64)
<223> Xaa equals stop translation
```

&lt;400&gt; 187

Met Val His Lys Ala Ile Leu Ala Leu Leu Pro Trp Gly Phe Ser Ala  
 1 5 10 15

Asp Glu Leu Leu Ala Ser Leu Met Met Xaa Leu Thr Glu Lys Tyr Gln  
 20 25 30

Asn Cys Ser Ser Thr Thr Asp Ile Xaa Asn Gln Gln Leu Arg Ser Leu  
 35 40 45

Gly Gln Asn Phe Met Phe Gln Gln Asn Leu Gln Leu Ile Leu Met Xaa  
 50 55 60

&lt;210&gt; 188

&lt;211&gt; 113

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (113)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 188

Met Met Thr Ser Ser Leu Gly Leu Ser Phe Leu Leu Asn Leu Ile Leu  
 1 5 10 15

Gly Met Lys Phe Thr Tyr Leu Ile Pro Gln Asn Lys Tyr Ile Gln Leu  
 20 25 30

Phe Thr Thr Ile Leu Ser Phe Phe Ser Gly Val Leu Ser Leu Leu Glu  
 35 40 45

Cys Lys Leu Ser Thr Ser Ser Cys Thr Cys Leu Asn Ile His Lys Ser  
 50 55 60

Asp Asn Glu Cys Lys Glu Ser Glu Asn Ser Ile Glu Asp Ile Ser Leu  
 65 70 75 80

Pro Glu Arg Thr Ala Met Pro Arg Ser Ile Val Arg Ala His Thr Val  
 85 90 95

Asn Ser Leu Asn Lys Lys Val Gln Thr Arg His Val Thr Trp Ala Leu  
 100 105 110

Xaa

&lt;210&gt; 189

&lt;211&gt; 60

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (60)  
 <223> Xaa equals stop translation  
  
 <400> 189  
 Met Leu His Leu Thr Leu Tyr Leu His Phe Ile Leu Phe Val Phe Pro  
   1                  5                  10                  15  
  
 Ile Thr Ser Asn Phe Ser Ser Leu His Pro Phe Leu Phe Ile Ser Ser  
           20                  25                  30  
  
 Gln Phe Thr Ser Cys Cys Gln Ile Asn Phe Pro Asn Ala Gln Ala Leu  
       35                  40                  45  
  
 Ser Tyr His Glu Phe Leu Ile Ala Thr Tyr Asp Xaa  
       50                  55                  60

<210> 190  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals stop translation  
  
 <400> 190  
 Met Pro Cys Ile Arg Gly Val Phe His Cys Phe Ile Leu Ile Ile Leu  
   1                  5                  10                  15  
  
 Ile Leu Leu Ala Ser His Ala Phe Ser Gly Ser Gly Asn Gln Arg Leu  
           20                  25                  30  
  
 Lys Glu Ala Leu Thr Leu Ile Val Ser Val Asn Val Asp Ile Ala Arg  
       35                  40                  45  
  
 His Arg Pro Phe Leu Glu Arg Ile His Val Lys Lys Gly Asn Thr Xaa  
       50                  55                  60

<210> 191  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (71)  
 <223> Xaa equals stop translation

<400> 191  
 Met Phe Ser Arg Leu His Phe Leu Thr His Ser Leu Ser Leu Leu His  
   1                  5                  10                  15

Leu Pro Ser Gln Val Phe Gly Glu Val His Ser Ser Cys Val Ser Ser  
20 25 30

Leu Pro Cys Pro Asp Thr Pro Ala Leu Pro Tyr Cys Pro Ser Phe Leu  
35 40 45

Arg Tyr Asp Asp His Ile Glu Ala Gln Pro Leu Lys His Ile Asn Thr  
50 55 60

Asn Asp His Ile Ser Ile Xaa  
65 70

<210> 192

<211> 174

<212> PRT

<213> Homo sapiens

<400> 192

Met Tyr Val Arg Phe Phe Arg Leu His Ser Ile Ser Ser His Pro  
1 5 10 15

Ser Gly Ile Val Ser Leu Cys Leu Leu Phe Glu Thr Leu Leu Gln Thr  
20 25 30

Tyr Leu Pro Gln Leu Phe Tyr His Leu Arg Glu Ile Gly Ala Gln Pro  
35 40 45

Leu Arg Ile Ser Phe Lys Trp Met Val Arg Ala Phe Ser Gly Tyr Leu  
50 55 60

Ala Thr Asp Gln Leu Leu Leu Leu Trp Asp Arg Ile Leu Gly Tyr Asn  
65 70 75 80

Ser Leu Glu Ile Leu Ala Val Leu Ala Ala Val Phe Ala Phe Arg  
85 90 95

Ala Val Asn Leu Met Glu Val Thr Ser Leu Ala Ala Ala Glu Asn Leu  
100 105 110

Ala Ala His Ser Glu Gln Phe Cys Thr Ala Pro Leu Phe Pro Glu Leu  
115 120 125

Tyr Arg Val Gln Ile Pro Val Leu Leu Asn Ser Gly Arg Lys Lys Ser  
130 135 140

Ala Val Tyr Trp Thr Pro Ile Ser Phe Asn Arg Thr Lys Lys Leu Arg  
145 150 155 160

Leu Gln Gly Arg Thr Tyr Asn Asp Gly Ser Trp Asn Ile Thr  
165 170

<210> 193

<211> 193

<212> PRT

<213> Homo sapiens

<220>



<221> SITE  
 <222> (193)  
 <223> Xaa equals stop translation

<400> 193

Met Glu Ala Leu Leu Gln Ser Leu Val Ile Val Leu Leu Gly Phe Lys  
 1 5 10 15  
 Ser Phe Leu Ser Glu Glu Leu Gly Ser Glu Val Leu Asn Leu Leu Thr  
 20 25 30  
 Asn Lys Gln Tyr Glu Leu Leu Ser Lys Asn Leu Arg Lys Thr Arg Glu  
 35 40 45  
 Leu Phe Val His Gly Leu Pro Gly Ser Gly Lys Thr Ile Leu Ala Leu  
 50 55 60  
 Arg Ile Met Glu Lys Ile Arg Asn Val Phe His Cys Glu Pro Ala Asn  
 65 70 75 80  
 Ile Leu Tyr Ile Cys Glu Asn Gln Pro Leu Lys Lys Leu Val Ser Phe  
 85 90 95  
 Ser Lys Lys Asn Ile Cys Gln Pro Val Thr Arg Lys Thr Phe Met Lys  
 100 105 110  
 Asn Asn Phe Glu His Ile Gln His Ile Ile Ile Asp Asp Ala Gln Asn  
 115 120 125  
 Phe Arg Thr Glu Asp Gly Asp Trp Tyr Gly Lys Ala Lys Phe Ile Thr  
 130 135 140  
 Gln Thr Ala Arg Asp Gly Pro Gly Val Leu Trp Ile Phe Leu Asp Tyr  
 145 150 155 160  
 Phe Gln Thr Tyr His Leu Ser Cys Ser Ala Ser Pro Leu Pro Gln Thr  
 165 170 175  
 Ser Ile Gln Glu Lys Arg Ser Thr Glu Trp Ser Ala Met Gln Val Gln  
 180 185 190  
 Xaa

<210> 194  
 <211> 112  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (112)  
 <223> Xaa equals stop translation

<400> 194

Met Gln Phe Ser Leu Cys Leu Thr Ala Val Phe Leu Leu Gln Leu Ala  
 1 5 10 15

Ala Gly Ile Leu Gly Phe Val Phe Ser Asp Lys Ala Arg Gly Lys Val  
                   20                  25                  30

Ser Glu Ile Ile Asn Asn Ala Ile Val His Tyr Arg Asp Asp Leu Asp  
                   35                  40                  45

Leu Gln Asn Leu Ile Asp Phe Gly Gln Lys Lys Val Trp Val Ser Gln  
                   50                  55                  60

Trp Ser Gly Gly Leu Trp Val Lys Val Asn Val Ile Pro Arg Asp Ala  
                   65                  70                  75                  80

Ser Pro Ser Met Pro Val Gly Leu Phe Ile Thr Cys Gln Val Met Ala  
                   85                  90                  95

Ser Gly Lys Gly Phe Gly Lys Lys Ser Thr Arg Ser Arg Val Leu Xaa  
                   100                  105                  110

&lt;210&gt; 195

&lt;211&gt; 80

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (80)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 195

Met Cys Arg Pro Leu Leu Pro Leu Leu Phe Pro Trp Gly His Cys Leu  
                   1                  5                  10                  15

Ser Ile Pro Leu Cys Lys Trp Pro Gln Ile Met Ser Gln Pro Pro Arg  
                   20                  25                  30

Leu His Arg Leu Leu Ala Ser Gly Pro Ser Thr Lys Lys His Ser Lys  
                   35                  40                  45

Leu Gln Thr His Ser Trp Glu Asn Ser Asn Gly Leu Thr Leu Pro Phe  
                   50                  55                  60

Glu Pro Ala Arg Ser His Gly Leu Trp Arg Ala Ala Phe Glu Ser Xaa  
                   65                  70                  75                  80

&lt;210&gt; 196

&lt;211&gt; 88

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (88)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 196

Met Leu Ser Ile Ile Asp Leu Leu Phe Leu Leu Ser Pro Thr Phe Gly  
 1 5 10 15

Leu Ile Thr Glu Leu Leu Phe Ser Pro Glu Val Pro Lys Ala Leu Ser  
 20 25 30

Cys Pro Leu Lys Ala Leu Gly Gly Gly Ser His Ser His Glu Pro Leu  
 35 40 45

Gly Met Phe Ala Pro Val Pro Pro Gly Cys Glu Ser Ser Thr Pro Phe  
 50 55 60

Pro Lys Gly Leu Gly Ala Ser Lys Ile Leu Thr Leu Gly Ala Gln Ala  
 65 70 75 80

Glu Phe Arg Arg Arg Ser His Xaa  
 85

&lt;210&gt; 197

&lt;211&gt; 42

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (42)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 197

Met Glu Asp His Phe Leu Ile Gly His Phe Pro Phe Phe Phe Leu Phe  
 1 5 10 15

Ser Phe Pro Cys Phe Cys Thr Lys Pro Leu Cys Arg Glu Tyr Phe Leu  
 20 25 30

Ile Cys Ser Ile Gln Asp Glu Ser Lys Xaa  
 35 40

&lt;210&gt; 198

&lt;211&gt; 69

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (69)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 198

Met Phe Asn Leu Pro Lys Pro Val Phe Leu Ser Trp Trp Arg Trp Lys  
 1 5 10 15

Thr Ile Val Ile Phe Leu Ala Cys Leu Ala Ser Ala Ala Ile Lys Glu

	20		25		30										
Thr	Ala	Val	Ser	Met	Lys	Thr	Val	Phe	Pro	Ile	Phe	Val	Gln	Ile	Thr
	35					40						45			
Leu	Ile	Leu	Leu	Leu	Glu	Ser	Arg	Val	Leu	Lys	Ile	Gly	Asp	Phe	Ser
	50					55						60			
Asn	Phe	Phe	Cys	Xaa											
	65														

<210> 199  
 <211> 153  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (66)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (81)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (86)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (87)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (93)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (103)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE

&lt;222&gt; (110)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (153)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 199

Met Asp His Ser Pro Thr Thr Gly Val Val Thr Val Ile Val Ile Leu  
 1 5 10 15

Ile Ala Ile Ala Ala Leu Gly Ala Phe Asp Pro Gly Leu Leu Val Leu  
 20 25 30

Pro Ala Ala Ala Ala His Gln Pro Val Arg Gly Arg Gly Glu His Arg  
 35 40 45

Gly Gly Trp Gly Asp Gln Gly Thr Leu Pro Ala Gly Ala Val Phe Gly  
 50 55 60

Gln Xaa Thr Val Arg Gly Glu Lys Gly Gln Ala Asp Xaa Ser Gln Thr  
 65 70 75 80

Xaa Arg Lys Xaa Thr Xaa Xaa Pro Gly Cys Lys Gly Xaa Leu Val Pro  
 85 90 95

Val Cys Lys Pro Ala Lys Xaa Gly Leu Gly Gly Ala Lys Xaa Ile Arg  
 100 105 110

Met Arg Cys Cys Leu Arg Gly Arg Ala Asp Thr Cys Trp His Gly Leu  
 115 120 125

Cys Gly Phe Arg Pro Ser His Ala Leu Met Pro Gly Asp Leu Ala Val  
 130 135 140

Leu Gly Phe Pro Ser Ala Ser Arg Xaa  
 145 150

&lt;210&gt; 200

&lt;211&gt; 63

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (63)

&lt;223&gt; Xaa equals stop translation

&lt;400&gt; 200

Met Lys Asn Ser Thr Ser Leu Leu Tyr Lys Leu Phe Ser Ser Leu Ser  
 1 5 10 15

Val Phe Ile Phe Lys Phe Leu Leu Leu Phe Tyr Thr Leu His Ile Ala  
 20 25 30

Leu Gly Val Lys Ile Gln Tyr Lys Pro Leu Ala His Phe Ile Asp His  
 35 40 45

Ser Cys Ile Gln Gln Val Ser Gln Val Gln Trp Ser Ile Pro Xaa  
 50 55 60

<210> 201  
 <211> 64  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals stop translation

<400> 201  
 Met Gln Glu Pro His Gly Lys Phe Leu Ser Trp Gly Arg Trp Leu Trp  
 1 5 10 15

Trp Trp Ser Leu Ala Ala Pro Ala Leu Val Gln Ala Val Asn Met Pro  
 20 25 30

Pro Ala Tyr Ile Gln Ile Glu Asn Trp Tyr Met Met Leu Leu Met Gly  
 35 40 45

Trp Glu Thr Lys Cys Cys His Val Arg Ser Leu Trp Val Gly Thr Xaa  
 50 55 60

<210> 202  
 <211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 202  
 Met Leu Ile Asn Cys Ile Phe Ser Leu Leu Leu Leu Ser His Ala  
 1 5 10 15

Asp Gly Met His Leu Phe Ile Ser Ser Gly Asp Arg Ile Leu Phe Cys  
 20 25 30

Leu Tyr Phe Leu His Ser Arg Val Cys Ala Xaa  
 35 40

<210> 203  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (41)  
 <223> Xaa equals stop translation

<400> 203  
 Met Ser Val Tyr Val Asn Ile Met His Ile Val Ile Tyr Ile Tyr Leu  
 1 5 10 15

Cys Val Tyr Met Cys Val Ala Gln Ser His Thr His Thr Gln Ile Cys  
 20 25 30

Ile Gln Met Leu Pro Gly Leu Gln Xaa  
 35 40

<210> 204  
 <211> 44  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals stop translation

<400> 204  
 Met Ile Leu Ser Phe Leu Met Leu Phe Leu Ile Val Lys Thr Ile Pro  
 1 5 10 15

Leu Ile Leu Ala Tyr Cys Tyr Asn Ser Ile Ser Phe Phe Ser Asn Asn  
 20 25 30

Leu Val Leu Val Lys Met Gly Tyr Asn Asn Lys Xaa  
 35 40

<210> 205  
 <211> 42  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals stop translation

<400> 205  
 Met Arg Leu Leu Ser Thr Leu Leu Ser Phe Tyr Pro Phe Ser Asn Cys  
 1 5 10 15

Phe Leu Leu Ser Phe Cys Asp Ser His Pro Pro Val Trp Leu Arg Asn  
 20 25 30

Ser Gln Val Phe Pro Glu Glu Val Val Xaa  
 35 40

<210> 206  
 <211> 42

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<212> PRT
<213> Homo sapiens
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<220>
<221> SITE
<222> (42)
<223> Xaa equals stop translation
```

<400> 206  
Met Thr Gly Lys Leu Trp Leu Leu Leu Pro Arg Leu Gly His Ala Ala  
1 5 10 15

Ala Ala Pro Thr Thr Ala Leu Ser Gly Ser Glu Leu Glu Gly Thr Ser  
20 25 30

Ile Ser Leu Leu Ile Ala Leu Asp Arg Xaa  
35 40

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<210> 207
<211> 113
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (17)
<223> Xaa.equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (57)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (90)
<223> Xaa equals any of the naturally occurring L-amino acids
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<220>
<221> SITE
<222> (91)
<223> Xaa equals any of the naturally occurring L-amino acids
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```
<220>
<221> SITE
<222> (113)
<223> Xaa equals stop translation
```

<400> 207  
Met Ala Pro Trp Leu Pro Leu Leu Ser Leu Leu Gly Leu Leu Leu Gly  
1 5 10 15

Xaa Ala Pro Ala Pro Pro Arg Arg Ala Ala Asp Ala Gln Ala Arg Glu  
20 25 30

Ala Ala Tyr Pro Glu Leu Leu Gly Pro Ala Arg Phe Ala Leu Glu Met  
35 40 45



Tyr Asn Arg Gly Arg Ala Ala Gly Xaa Arg Ala Thr Leu Gly Ala Val  
50 55 60

Arg Gly Arg Val Arg Arg Ala Gly Glu Gly Ser Leu Tyr Ser Leu Arg  
65 70 75 80

Ala Thr Leu Glu Glu Pro Pro Cys Asn Xaa Thr Val Cys Gln Leu  
85 90 95

Pro Val Ser Lys Arg Pro Cys Ser Ala Ala Leu Lys Ser Trp Thr Ser  
100 105 110

Xaa

<210> 208

<211> 45

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (45)

<223> Xaa equals stop translation

<400> 208

Met Pro Thr Trp Pro Leu Leu Gln Leu Leu Ser Cys Ser Phe Pro Ser  
1 5 10 15

Leu Leu Cys Glu Thr Phe Thr Phe Cys Ser Lys Asp Glu Val Ser Arg  
20 25 30

Trp Lys Ala Gly Cys Phe Val Pro Leu Pro Ala Ser Xaa  
35 40 45

<210> 209

<211> 123

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (71)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 209

Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser  
1 5 10 15

Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly  
20 25 30

Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Ile Leu  
35 40 45

Leu Pro Pro Val Cys Thr Asn Ile Phe Leu Ser Ser Ser Pro Ser Glu  
50 55 60

Val Tyr Trp Asn Met Ser Xaa Thr Ile Met Met Val Val Lys Met Met  
65 70 75 80

Met Met Trp Val Ile Leu Ala Thr Leu Leu Gly Pro Ser Ser Pro Gln  
85 90 95

Phe Val Ala Gln Ser Thr Leu His Thr Phe Ser Leu Val Leu Ile Lys  
100 105 110

Pro Pro Phe Arg Val Gly Phe Ser Val Leu Phe  
115 120

<210> 210

<211> 42

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (42)

<223> Xaa equals stop translation

<400> 210

Met Ile Asn Phe Trp Pro Val Thr His Val Cys Ile Trp Leu Leu Trp  
1 5 10 15

Leu Gln Ala Leu Glu Ala Arg Gly Gln Gly Ser Asn Ile Asp Cys Thr  
20 25 30

Arg Asn Ser Lys Thr Val Phe Thr Ser Xaa  
35 40

<210> 211

<211> 51

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (51)

<223> Xaa equals stop translation

<400> 211

Met Tyr Ile Tyr Leu Ile His Leu Cys Met Cys Val Tyr Ile Tyr Ile  
1 5 10 15

Tyr Ile Leu Leu Ile Ile Tyr Thr Leu Asp Pro Glu Pro Pro Ser Trp  
20 25 30

Ser Pro Lys Leu Asp Ser His Leu Ser Leu Arg Gln Pro Ser Asn Asp  
35 40 45

Arg Phe Xaa  
50

<210> 212  
 <211> 65  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals stop translation

<400> 212  
 Met Phe Val Leu Cys Thr Arg Ala Val Arg Thr Arg Leu Phe Ser Leu  
 1 5 10 15

Cys Cys Cys Cys Cys Ser Ser Gln Pro Pro Thr Lys Ser Pro Ala Gly  
 20 25 30

Thr Pro Lys Ala Pro Ala Pro Ser Lys Pro Gly Glu Ser Gln Glu Ser  
 35 40 45

Gln Gly Thr Pro Gly Glu Leu Pro Ser Thr Trp Ser Phe Cys Pro Phe  
 50 55 60

Xaa  
 65

<210> 213  
 <211> 77  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (77)  
 <223> Xaa equals stop translation

<400> 213  
 Met Leu Ala Leu Leu Val Gly Gly Leu Val Ala Ala Leu Ala Cys His  
 1 5 10 15

Gly Ile Leu Ala Ala Ile Leu Ala Val Cys Gly Glu Leu Val Ser Gly  
 20 25 30

Lys Gly Thr Arg Ser Ser Asp Glu Asp Asp Gly Gly Asp Gly Asp Arg  
 35 40 45

Gly His Arg Gly Leu Ser Leu Leu Asn Ser Ala Phe Gly His Met Gly  
 50 55 60

Asp Gly Asp Arg Lys Asp Asp Asn Ser Gly Thr Leu Xaa  
 65 70 75

<210> 214  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

```

<220>
<221> SITE
<222> (45)
<223> Xaa equals stop translation

<400> 214
Met Phe Val Gly Thr Arg Val Leu Leu Val Pro Leu Pro Phe Phe Ser
  1             5             10             15

Ile Ser Gly Met Leu Ala Ile Asp Lys Tyr Leu His Lys Lys Leu Leu
      20             25             30

Leu Asn Glu Ile Ile Thr Thr Ser Thr Trp Ala Leu Xaa
      35             40             45

<210> 215
<211> 66
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (27)
<223> Xaa equals any of the naturally occurring L-amino acids

<220>
<221> SITE
<222> (66)
<223> Xaa equals stop translation

<400> 215
Met Gly Lys Gly His Gln Arg Pro Trp Trp Lys Val Leu Pro Leu Ser
  1             5             10             15

Cys Phe Leu Val Ala Leu Ile Ile Trp Cys Xaa Leu Arg Glu Glu Ser
      20             25             30

Glu Ala Asp Gln Trp Leu Arg Gln Val Trp Gly Glu Val Pro Glu Pro
      35             40             45

Ser Asp Arg Ser Glu Glu Pro Glu Thr Pro Ala Ala Tyr Arg Ala Arg
      50             55             60

Thr Xaa
  65

<210> 216
<211> 62
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (62)
<223> Xaa equals stop translation

<400> 216

```

Met Arg Leu Cys Thr Thr Trp Met Ala Val Lys Phe Leu Trp Trp Gly  
 1 5 10 15

Met Thr Trp Ile Pro Ser Gly Lys Ala Cys Ser Trp Thr Gln Pro Leu  
 20 25 30

Cys Ser Ser Gly Gly Trp Ser Ser Pro Thr His Leu Pro Thr Ser Leu  
 35 40 45

Leu Leu Gly Trp Arg Ala Ser Leu Cys Met Lys Arg Ser Xaa  
 50 55 60

<210> 217

<211> 56

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (56)

<223> Xaa equals stop translation

<400> 217

Met Phe Ala Ser Tyr His Ile Gln Phe Phe Thr Trp Leu Ile Gln Lys  
 1 5 10 15

Leu Ser Leu Val Trp Lys Ser Val Val Ala Ile Arg Glu Gln Gly Lys  
 20 25 30

Glu Leu Val Trp Lys Gln His Leu Pro Leu Arg Ser Tyr Ser Pro Asn  
 35 40 45

Asn Ala Lys Ser Leu Gly Leu Xaa  
 50 55

<210> 218

<211> 213

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (88)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (213)

<223> Xaa equals stop translation

<400> 218

Met Leu Ser Phe Asn Phe Thr Trp Met Val Trp Val Ser Leu Val Leu  
 1 5 10 15

Lys Ser Gln Arg Ala Lys Leu Ala Leu His Ser Leu His Leu His Gln  
 20 25 30

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<210> 219
<211> 41
<212> PRT
<213> Homo sapiens

<220>
<221> SITE
<222> (41)
<223> Xaa equals stop translation

<400> 219
Met Asn Met Phe Gln Thr Ile Leu Val Cys Val Leu Phe Val Phe Val
 1              5              10              15

Arg Trp Phe Phe Leu Leu Leu Gln Ile Glu Ser Ile Gln Thr Lys Phe
              20              25              30

His Cys Ile Ser Ser Gln Phe Trp Xaa
 35              40

```

<211> 60  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (60)  
 <223> Xaa equals stop translation

<400> 220  
 Met Glu Leu Val Trp Phe Arg Phe Leu His Leu Asn Leu Leu Pro Arg  
 1 5 10 15  
 Gly Val Cys Cys Gly Ile Cys Val Cys Val Arg Arg Gly Met Val Leu  
 20 25 30  
 Ser Glu Pro Thr Ser Cys Gly Gln Arg Ala Leu Ser Cys Glu Gly Gly  
 35 40 45  
 Cys His Ser Gly Arg Val Gln Phe Arg Arg Pro Xaa  
 50 55 60

<210> 221  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 221  
 Met Arg Arg Met Arg Met Lys Ser Leu Ser Pro Arg Arg Ser Trp Trp  
 1 5 10 15  
 Thr Leu Trp Leu Gly Gln Gly Val Leu Gly Ala Ala Leu Lys Ala Asn  
 20 25 30  
 Thr Leu Trp Ile Ala Met Arg Arg Arg Met Met Met Met Gly Gly Pro  
 35 40 45  
 Ala Asn Met Thr Ser Trp Pro Gln Arg Met Xaa  
 50 55

<210> 222  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals stop translation

<400> 222  
 Met Pro Phe Phe Leu Leu Thr Phe Pro Leu Val Leu Tyr Pro His Leu

1	5	10	15
Ser Arg Gly Ser Asp Pro Val Leu Pro Cys Val Met Gly Ile His Val			
20	25	30	
Phe Gly Leu Ser His His Ser Arg Lys Val Ala Pro Pro Xaa			
35	40	45	

<210> 223  
 <211> 62  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals stop translation

<400> 223
Met Asp Arg Val Arg Phe Arg Ser Trp Leu Leu Tyr Pro Cys Cys Val
1 5 10 15
Ala Leu Gly Gln Glu Leu Gly Leu Ser Ala Pro Gln Trp Leu Ile Thr
20 25 30
Glu Asn Gly Met Pro Ala Leu Ala Leu Val Gly Cys Phe Glu Pro Thr
35 40 45
Ala Gly Ser Gly Ser Ser Trp His Asp Val Phe Leu Pro Xaa
50 55 60

<210> 224  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals stop translation

<400> 224
Met Lys Leu Asn Val His Phe Leu Trp Cys Thr Phe Ile Phe Gln Thr
1 5 10 15
Ser Gly Ser His Ile Glu Leu Leu Ile Ser Gly Gln Val Ser Ser Tyr
20 25 30
Ile Pro Ser Leu Asp Phe Cys Thr His Lys Val Val Ser Arg Glu Lys
35 40 45
Phe Glu Glu Xaa
50

<210> 225  
 <211> 51



<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 225  
 Met Ala Ser Pro Val Phe Lys Thr Phe Trp Arg Leu Glu Leu Ser Val  
 1 5 10 15  
 Pro Leu Ser Leu Leu Phe Ile Leu Gln Ile Val Thr Ser Leu Ser Ser  
 20 25 30  
 Asp Glu Ile Cys Tyr Ser Thr Arg Lys Val Phe Ile Ile Arg Arg Gln  
 35 40 45  
 Leu Tyr Xaa  
 50

<210> 226  
 <211> 47  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (47)  
 <223> Xaa equals stop translation

<400> 226  
 Met Cys Met Cys Val Gly Val Cys Leu Ile Thr Leu Leu Asp Arg Phe  
 1 5 10 15  
 Leu Trp Phe Gly Thr Ala Gly Ala Lys Phe Ile Gln Lys Ser Thr Phe  
 20 25 30  
 Leu Ser Lys Leu Pro Met Thr Leu Val Ser Phe His Ser Ile Xaa  
 35 40 45

<210> 227  
 <211> 52  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals stop translation

<400> 227  
 Met Cys Pro Phe His Lys Ala Tyr Leu Asp Cys Phe Phe Gln Ile Ser  
 1 5 10 15  
 Leu Leu Leu Leu Ile Phe Leu Thr Tyr Leu Asp Ile Gly Lys Cys Gly  
 20 25 30

Leu Trp Ser His Glu Trp Arg Ile Arg Glu Leu Gly Lys His Glu Arg  
 35 40 45

Trp Trp Asn Xaa  
 50

<210> 228

<211> 66

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (61)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (66)

<223> Xaa equals stop translation

<400> 228

Met Asn Gln Pro Ile Leu Arg Ser Gln Ala Leu Leu Trp Pro Trp Arg  
 1 5 10 15

Trp Val Val Lys Ala Lys Pro Cys Val Cys Val Ser Met Asp Ala Trp  
 20 25 30

Ile Pro Asp Arg Ser Gln His Cys Pro Ser Ile Pro Gly Gln Lys Lys  
 35 40 45

Glu Arg Ala Gly Ser His Gly His Gln Ala Leu Ala Xaa Leu Leu Phe  
 50 55 60

Leu Xaa  
 65

<210> 229

<211> 47

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (47)

<223> Xaa equals stop translation

<400> 229

Met Ala Ser Arg Gly Thr Ala Ala Pro Gly Arg Thr Phe Leu Ala Met  
 1 5 10 15

Met Val Thr Ser Phe Phe Phe Cys Met Arg Trp Gly Ser Trp Ala Glu  
 20 25 30

Gln Met Pro Gln Arg Cys Leu Pro Cys Cys Met Gln Glu Cys Xaa  
 35 40 45

<210> 230  
 <211> 222  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (184)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (222)  
 <223> Xaa equals stop translation

<400> 230  
 Met Ala Gly Gly Val Arg Pro Leu Arg Gly Leu Arg Ala Leu Cys Arg  
 1 5 10 15  
 Val Leu Leu Phe Leu Ser Gln Phe Cys Ile Leu Ser Gly Gly Glu Ser  
 20 25 30  
 Thr Glu Ile Pro Pro Tyr Val Met Lys Cys Pro Ser Asn Gly Leu Cys  
 35 40 45  
 Ser Arg Leu Pro Ala Asp Cys Ile Asp Cys Thr Thr Asn Phe Ser Cys  
 50 55 60  
 Thr Tyr Gly Lys Pro Val Thr Phe Asp Cys Ala Val Lys Pro Ser Val  
 65 70 75 80  
 Thr Cys Val Asp Gln Asp Phe Lys Ser Gln Lys Asn Phe Ile Ile Asn  
 85 90 95  
 Met Thr Cys Arg Phe Cys Trp Gln Leu Pro Glu Thr Asp Tyr Glu Cys  
 100 105 110  
 Thr Asn Ser Thr Ser Cys Met Thr Val Ser Cys Pro Arg Gln Arg Tyr  
 115 120 125  
 Pro Ala Asn Cys Thr Val Arg Asp His Val His Cys Leu Gly Asn Arg  
 130 135 140  
 Thr Phe Pro Lys Met Leu Tyr Cys Asn Trp Thr Gly Gly Tyr Lys Trp  
 145 150 155 160  
 Ser Thr Ala Leu Ala Leu Ser Ile Thr Leu Gly Gly Phe Gly Ala Asp  
 165 170 175  
 Arg Phe Tyr Leu Gly Gln Trp Xaa Glu Gly Leu Gly Lys Leu Phe Ser  
 180 185 190  
 Phe Gly Gly Leu Gly Ile Trp Thr Leu Ile Asp Val Leu Leu Ile Gly  
 195 200 205  
 Val Gly Tyr Val Gly Pro Ala Asp Gly Ser Leu Tyr Ile Xaa  
 210 215 220

<210> 231  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals stop translation

<400> 231  
 Met Cys Ile His Tyr Ser Arg Val Ile Phe Ser Phe Leu Lys Leu Arg  
 1 5 10 15

Ile Lys Ser Ile Ser Trp Tyr Ala Met Trp Leu Tyr Phe Phe Cys Tyr  
 20 25 30

Leu Asn Cys Leu Ala Lys Val Arg Ser Ala Thr Thr Tyr Leu Tyr Val  
 35 40 45

Xaa

<210> 232  
 <211> 41  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (41)  
 <223> Xaa equals stop translation

<400> 232  
 Met Leu Pro Val Cys Val Phe Lys Leu Leu Leu Tyr Leu Tyr Val Leu  
 1 5 10 15

Ile Arg Ile Cys Thr Ile Ile Trp Cys Phe Lys Val Tyr Ile Asn Ala  
 20 25 30

Val Ile Leu Asn Lys Ser Ser Arg Xaa  
 35 40

<210> 233  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (53)  
 <223> Xaa equals stop translation

<400> 233  
 Met Asn Cys Gly Ser Thr Leu Cys Val Leu Ser Phe Cys Ser Val

231 232 233 234 235 236 237 238 239 240 241 242 243 244 245 246 247 248 249 250 251 252 253 254 255 256 257 258 259 260 261 262 263 264 265 266 267 268 269 270 271 272 273 274 275 276 277 278 279 280 281 282 283 284 285 286 287 288 289 290 291 292 293 294 295 296 297 298 299 300 301 302 303 304 305 306 307 308 309 310 311 312 313 314 315 316 317 318 319 320 321 322 323 324 325 326 327 328 329 330 331 332 333 334 335 336 337 338 339 340 341 342 343 344 345 346 347 348 349 350 351 352 353 354 355 356 357 358 359 360 361 362 363 364 365 366 367 368 369 370 371 372 373 374 375 376 377 378 379 380 381 382 383 384 385 386 387 388 389 390 391 392 393 394 395 396 397 398 399 400 401 402 403 404 405 406 407 408 409 410 411 412 413 414 415 416 417 418 419 420 421 422 423 424 425 426 427 428 429 430 431 432 433 434 435 436 437 438 439 440 441 442 443 444 445 446 447 448 449 450 451 452 453 454 455 456 457 458 459 460 461 462 463 464 465 466 467 468 469 470 471 472 473 474 475 476 477 478 479 480 481 482 483 484 485 486 487 488 489 490 491 492 493 494 495 496 497 498 499 500 501 502 503 504 505 506 507 508 509 510 511 512 513 514 515 516 517 518 519 520 521 522 523 524 525 526 527 528 529 530 531 532 533 534 535 536 537 538 539 540 541 542 543 544 545 546 547 548 549 550 551 552 553 554 555 556 557 558 559 560 561 562 563 564 565 566 567 568 569 570 571 572 573 574 575 576 577 578 579 580 581 582 583 584 585 586 587 588 589 590 591 592 593 594 595 596 597 598 599 600 601 602 603 604 605 606 607 608 609 610 611 612 613 614 615 616 617 618 619 620 621 622 623 624 625 626 627 628 629 630 631 632 633 634 635 636 637 638 639 640 641 642 643 644 645 646 647 648 649 650 651 652 653 654 655 656 657 658 659 660 661 662 663 664 665 666 667 668 669 670 671 672 673 674 675 676 677 678 679 680 681 682 683 684 685 686 687 688 689 690 691 692 693 694 695 696 697 698 699 700 701 702 703 704 705 706 707 708 709 710 711 712 713 714 715 716 717 718 719 720 721 722 723 724 725 726 727 728 729 730 731 732 733 734 735 736 737 738 739 740 741 742 743 744 745 746 747 748 749 750 751 752 753 754 755 756 757 758 759 760 761 762 763 764 765 766 767 768 769 770 771 772 773 774 775 776 777 778 779 780 781 782 783 784 785 786 787 788 789 790 791 792 793 794 795 796 797 798 799 800 801 802 803 804 805 806 807 808 809 810 811 812 813 814 815 816 817 818 819 820 821 822 823 824 825 826 827 828 829 830 831 832 833 834 835 836 837 838 839 840 841 842 843 844 845 846 847 848 849 850 851 852 853 854 855 856 857 858 859 860 861 862 863 864 865 866 867 868 869 870 871 872 873 874 875 876 877 878 879 880 881 882 883 884 885 886 887 888 889 890 891 892 893 894 895 896 897 898 899 900 901 902 903 904 905 906 907 908 909 910 911 912 913 914 915 916 917 918 919 920 921 922 923 924 925 926 927 928 929 930 931 932 933 934 935 936 937 938 939 940 941 942 943 944 945 946 947 948 949 950 951 952 953 954 955 956 957 958 959 960 961 962 963 964 965 966 967 968 969 970 971 972 973 974 975 976 977 978 979 980 981 982 983 984 985 986 987 988 989 990 991 992 993 994 995 996 997 998 999 1000

1 5 10 15  
Val Cys Ser Val Glu Ala Ser Cys Gln Ser Thr Val Gln Trp Gly Gly  
20 25 30  
Ala Ala Ala Arg Val Gly Val Pro Phe Asp Trp Ser Arg Asn Glu Gln  
35 40 45  
Gly Lys Gly His Xaa  
50

<210> 234  
<211> 50  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (50)  
<223> Xaa equals stop translation

<400> 234  
Met Leu Gly Ser Ile Pro Lys Leu Trp Ser Val Leu Ser Phe Ser Ile  
1 5 10 15

Asn Phe Cys Phe Cys Cys Phe Ile Leu Ser Leu Leu Cys Leu Ser Val  
20 25 30

Leu Ser Asn Tyr Leu Phe Lys Thr Pro Arg Thr Trp Xaa Thr Leu His  
35 40 45

Arg Xaa  
50

<210> 235  
<211> 45  
<212> PRT  
<213> Homo sapiens

<220>  
<221> SITE  
<222> (16)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (45)  
<223> Xaa equals stop translation

<400> 235  
Met Cys Leu Pro Leu Leu His Cys Thr Gly Ala Leu Trp Gly Lys Xaa  
1 5 10 15

Val Leu Leu Phe Leu Tyr Cys Leu Ala Gln Ser Phe Ala Tyr Ser Arg  
 20 25 30

His Gln Thr Val Gly Leu Val Val His Asp Tyr Trp Xaa  
 35 40 45

<210> 236

<211> 55

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (55)

<223> Xaa equals stop translation

<400> 236

Met Cys Trp Ile Cys Val Trp Leu Phe Phe Ser Pro Thr Lys Thr Ser  
 1 5 10 15

Cys Phe Pro Trp Leu Ile Arg Pro Gly Pro Arg Ser Phe Thr Asp Ser  
 20 25 30

His Gly Thr Pro Pro Trp Gln Cys Leu Glu Pro Ser Ser Phe Thr Tyr  
 35 40 45

Pro Gly Lys Gln Val Trp Xaa  
 50 55

<210> 237

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals stop translation

<400> 237

Met Lys Arg Leu Arg Phe Val Leu Arg Val Phe Gln Met Thr Ala Phe  
 1 5 10 15

Ile Thr Gly Ala His Thr Ile Thr Asn Tyr Ser Asp Arg Arg Leu Tyr  
 20 25 30

Ile Ser Pro Leu Ser His Phe Phe Met Asn Ser Gly Ser Ser Ala Gln  
 35 40 45

Ser Val Leu Ser His Ser Tyr Val Ser Gln Ile Phe Phe Lys Asn Val  
 50 55 60

Ser Lys Tyr Phe Xaa  
 65

<210> 238  
 <211> 40  
 <212> PRT  
 <213> Homo sapiens

<400> 238  
 Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
 1 5 10 15

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
 20 25 30

Val Ser Gln Lys Arg Gly His Ile  
 35 40

<210> 239  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (34)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals stop translation

<400> 239  
 Met Thr Lys Leu Leu Ser Leu Ser His Leu Leu Val Thr Phe Asn  
 1 5 10 15

Ile Ile Ala Ile Lys Cys Lys Lys Gln His Leu Arg His Ser Lys Cys  
 20 25 30

Asn Xaa Asp Thr Thr Phe Lys Asn Lys Met Leu Asn Xaa  
 35 40 45

<210> 240  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals stop translation

<400> 240  
 Met Gln Leu Cys Val Ile Trp Phe Thr Val Ile Phe Leu Ser Gln Ser  
 1 5 10 15

Ser Arg Leu Val Lys Glu Lys Ile Ser Asn Thr Ser Gly Glu Lys Gly  
 20 25 30

Arg Trp Pro Ala Ile Asp Val Val Ala Leu Cys Pro Ser Arg Thr Ala  
35 40 45

Gly Ile Ser Phe Pro Arg His Phe Leu Tyr Val Ser Cys Ile Val Gly  
50 55 60

Cys Thr Asn Ile Ile Cys Ser Phe Gly Phe Pro Gly Gln Xaa  
65 70 75

<210> 241

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 241

Met Glu Val Val Leu Pro Lys His Ile Leu Asp Ile Trp Val Ile Val  
1 5 10 15

Leu Ile Ile Leu Ala Thr Ile Val Ile Met Thr Ser Leu Leu Cys  
20 25 30

Pro Ala Thr Ala Val Ile Ile Tyr Arg Met Arg Thr His Pro Ile Leu  
35 40 45

Ser Gly Ala Val Xaa  
50

<210> 242

<211> 53

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (53)

<223> Xaa equals stop translation

<400> 242

Met Tyr Tyr Leu Gly Lys Trp Asp Ile Trp Gln Pro Val Ser Leu Leu  
1 5 10 15

Tyr Ile Ile Leu Phe Ala Ala Cys Pro Ser Leu Leu Ile Ser Ile Pro  
20 25 30

Ala Lys Ala Ser Gly Glu Gly Trp Arg Cys Gly Asp Ile Gln Leu Thr  
35 40 45

Val Val Thr Asp Xaa  
50

<210> 243



<211> 43  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (43)  
 <223> Xaa equals stop translation

<400> 243  
 Met Pro Val Ala Phe His Leu Pro Phe Leu Leu Ile Leu Pro Tyr Arg  
           1                  5                  10                  15  
 Val Leu Pro Val Gly Gln Val Thr Gln Leu Thr Pro Arg Ala Val Glu  
                   20                  25                  30  
 Val Lys Ile His Asn His Gly Arg Leu Pro Xaa  
                   35                  40

<210> 244  
 <211> 49  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals stop translation

<400> 244  
 Met Ser Trp Pro Leu Cys Thr Leu Leu Phe Ser Trp Asp Cys Ile Leu  
           1                  5                  10                  15  
 Ala Val Lys Thr Ser Arg Leu Lys Phe Asp Ser Gln Gly Tyr Ile Leu  
                   20                  25                  30  
 Gly Thr Phe Lys Val Ser Phe Gln Arg Asp Phe Ile Asn Arg Leu Asp  
                   35                  40                  45

Xaa

<210> 245  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (75)  
 <223> Xaa equals stop translation

<400> 245  
 Met Ser Ile Ile Ile Tyr Trp Leu Leu Phe Phe Lys His Leu Leu Asp  
           1                  5                  10                  15  
 Val Leu Ile Ile Gly Met Val Lys Ala Leu His Pro His Tyr Leu Asn

129

20 25 30  
 Leu Arg Ile Tyr Glu Phe Gly Glu Ile Thr Ala Val Leu Gln Arg Lys  
           35                  40                  45  
 Lys Gln Gly Arg Glu Asn Gly Asn Phe Leu Lys Phe Ser Leu Leu Ser  
           50                  55                  60  
 Leu Asn Arg Ser Arg Ile Pro Thr Gln Ile Xaa  
           65                  70                  75

<210> 246

<211> 44

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (44)

<223> Xaa equals stop translation

<400> 246

Met Ala Ile His Phe His Ile Ile Gln Trp Leu Leu Leu Cys Tyr Asn  
           1                  5                  10                  15

Cys His His Ala Gln Trp Gly Leu Trp His Thr Thr Ala Glu Val Ser  
                   20                  25                  30

Gly Cys Gly Arg Asn His Leu Ala Phe Lys Ala Xaa  
           35                  40

<210> 247

<211> 65

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (65)

<223> Xaa equals stop translation

<400> 247

Met Tyr Leu Ser Leu Phe Phe Phe Cys Phe Ser Leu Gln Ala Ser Ala  
           1                  5                  10                  15

Val Glu Glu Arg Ser Ala Glu Ser Ser Arg Glu Gly Pro Val Arg Thr  
                   20                  25                  30

Asp Asn Trp Gln Arg Cys Phe Gly Asp Ile Pro Gly Thr Pro Thr His  
           35                  40                  45

Leu Val Gln Arg Ser Leu Val Leu Thr Cys Phe Gly Arg Val Leu Ser  
           50                  55                  60

Xaa

65

000100003-0000001

<210> 248  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (84)  
 <223> Xaa equals stop translation

<400> 248  
 Met Lys Lys Val Cys Trp Val Trp Ala Leu Ala His Leu Val Leu Cys  
 1 5 10 15  
 Glu Arg Trp Leu Thr Ala Gly Cys Leu Leu Tyr Val Gly Val Ile Gln  
 20 25 30  
 Pro Cys Lys Gly Ser Pro Ser Ser Val Cys Lys Ala Arg Arg Cys Leu  
 35 40 45  
 His Pro Lys Tyr Arg Ile Lys Arg Tyr Gly Tyr Lys Tyr Ser Val  
 50 55 60  
 Arg Leu Ile Ile Cys His His His Pro His Ala Leu Lys Ala Glu Leu  
 65 70 75 80  
 Thr Asp Asp Xaa

<210> 249  
 <211> 71  
 <212> PRT  
 <213> Homo sapiens

<400> 249  
 Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser  
 1 5 10 15  
 Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His  
 20 25 30  
 Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu  
 35 40 45  
 Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu  
 50 55 60  
 Ser Val Thr Lys Thr Phe Leu  
 65 70

<210> 250  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<220>

<221> SITE  
 <222> (57)  
 <223> Xaa equals stop translation

<400> 250  
 Met Arg Ser Tyr Phe Pro Phe Ser Val Cys Pro Phe Pro Phe Cys Ser  
 1 5 10 15  
 Pro Val Phe Phe Phe Val Phe Thr Asp Val Tyr Leu Cys Phe Phe Phe  
 20 25 30  
 Val Phe Ala Val Gly Arg His Leu Ser Asp Pro Phe Pro Ile Leu Phe  
 35 40 45  
 Phe Thr His Lys Cys Pro Asp Val Xaa  
 50 55

<210> 251  
 <211> 67  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (67)  
 <223> Xaa equals stop translation

<400> 251  
 Met Arg Ala Cys Gly Trp Asp Leu Ser Ile Leu Leu Val Gly Leu Val  
 1 5 10 15  
 Met Gly Arg Glu Gly Cys Tyr Ser Arg Leu Pro Pro Thr Glu Tyr Gln  
 20 25 30  
 Lys Gln Ala Gly Ser Ser Gly Val Cys Lys Asp Val Arg Pro Arg Asn  
 35 40 45  
 Gln Pro Ser Pro Ser Tyr Pro Cys Lys Ser Leu Ser Pro His Ala Pro  
 50 55 60  
 Leu Leu Xaa  
 65

<210> 252  
 <211> 46  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals stop translation

<400> 252  
 Met Tyr Leu Ile Leu Ser Trp Leu Phe Leu Cys Lys Leu Val Lys Cys  
 1 5 10 15

Tyr Phe Glu Ile Leu Leu Phe Ser Thr Ser Pro Gln Leu Leu Gln Trp  
 20 25 30

Thr Val Ile Val Thr Tyr Cys Gly Pro Leu Leu Arg Phe Xaa  
 35 40 45

<210> 253

<211> 54

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (54)

<223> Xaa equals stop translation

<400> 253

Met Leu Val Phe Leu Leu Leu Phe Ser Thr Val Thr Val Leu Cys Leu  
 1 5 10 15

Lys Val Val Phe Ser Leu Lys Ala Val Ala Tyr Ile Val Lys Asn Glu  
 20 25 30

Gly Leu Cys Leu Lys Phe Ile Ala Leu Gln Arg Val Val Ser Leu Lys  
 35 40 45

Ser Cys Thr Ile Lys Xaa  
 50

<210> 254

<211> 57

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (57)

<223> Xaa equals stop translation

<400> 254

Met Thr Phe Leu Leu Gln Trp Phe Pro Leu Gly Arg Ala Arg Val Val  
 1 5 10 15

Gly Asp Leu Cys Gly Phe Ser Thr Gln Ile His Pro Gly Val Ser Arg  
 20 25 30

Ala Gly Met Ala Asp Leu Glu Ser Pro Pro Phe Pro Arg Thr Cys Ser  
 35 40 45

Val Pro Arg Ala Ala Asn Lys Gly Xaa  
 50 55

<210> 255

<211> 42

<212> PRT

<213> Homo sapiens

<220>  
 <221> SITE  
 <222> (42)  
 <223> Xaa equals stop translation

<400> 255  
 Met Phe Val Lys Tyr His Val Ile Met Val Ile Ile Phe Ile Phe Ile  
 1 5 10 15  
 Leu Ile Thr Ser Asp Lys His Gly Glu Ile Ile Tyr Ile Lys Tyr Ile  
 20 25 30  
 Asp Arg Val Ile Ile Thr Glu Arg Ile Xaa  
 35 40

<210> 256  
 <211> 161  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (161)  
 <223> Xaa equals stop translation

<400> 256  
 Met Gln Arg Val Ser Gly Leu Leu Ser Trp Thr Leu Ser Arg Val Leu  
 1 5 10 15  
 Trp Leu Ser Gly Leu Ser Glu Pro Gly Ala Ala Arg Gln Pro Arg Ile  
 20 25 30  
 Met Glu Glu Lys Ala Leu Glu Val Tyr Asp Leu Ile Arg Thr Ile Arg  
 35 40 45  
 Asp Pro Glu Lys Pro Asn Thr Leu Glu Glu Leu Glu Val Val Ser Glu  
 50 55 60  
 Ser Cys Val Glu Val Gln Glu Ile Asn Glu Glu Glu Tyr Leu Val Ile  
 65 70 75 80  
 Ile Arg Phe Thr Pro Thr Val Pro His Cys Ser Leu Ala Thr Leu Ile  
 85 90 95  
 Gly Leu Cys Leu Arg Val Lys Leu Gln Arg Cys Leu Pro Phe Lys His  
 100 105 110  
 Lys Leu Glu Ile Tyr Ile Ser Glu Gly Thr His Ser Thr Glu Glu Asp  
 115 120 125  
 Ile Asn Lys Gln Ile Asn Asp Lys Glu Arg Val Ala Ala Ala Met Glu  
 130 135 140  
 Asn Pro Asn Leu Arg Glu Ile Val Glu Gln Cys Val Leu Glu Pro Asp  
 145 150 155 160  
 Xaa

<210> 257  
 <211> 51  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (51)  
 <223> Xaa equals stop translation

<400> 257  
 Met Leu Phe Phe Ser Leu Lys Glu Ser Leu Tyr Ile Phe His Thr Ala  
 1 5 10 15

Ile Leu Leu Val Val Cys Phe Ala Cys Ala Val Val Cys Gln Tyr Val  
 20 25 30

Ile Val Arg Val Cys Ala Val Val Phe Cys Phe Ser Lys Ser Gln Ser  
 35 40 45

Leu Ile Xaa  
 50

<210> 258  
 <211> 279  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (279)  
 <223> Xaa equals stop translation

<400> 258  
 Met Leu Ile Phe Gly Ala Ile Phe Gly Cys Leu Asp Pro Val Ala Thr  
 1 5 10 15

Leu Ala Ala Val Met Thr Glu Lys Ser Pro Phe Thr Thr Pro Ile Gly  
 20 25 30

Arg Lys Asp Glu Ala Asp Leu Ala Lys Ser Ala Leu Ala Met Ala Asp  
 35 40 45

Ser Asp His Leu Thr Ile Tyr Asn Ala Tyr Leu Gly Trp Lys Lys Ala  
 50 55 60

Arg Gln Glu Gly Gly Tyr Arg Ser Glu Ile Thr Tyr Cys Arg Arg Asn  
 65 70 75 80

Phe Leu Asn Arg Thr Ser Leu Leu Thr Leu Glu Asp Val Lys Gln Glu  
 85 90 95

Leu Ile Lys Leu Val Lys Ala Ala Gly Phe Ser Ser Ser Thr Thr Ser  
 100 105 110

Thr Ser Trp Glu Gly Asn Arg Ala Ser Gln Thr Leu Ser Phe Gln Glu  
115 120 125

Ile Ala Leu Leu Lys Ala Val Leu Val Ala Gly Leu Tyr Asp Asn Val  
130 135 140

Gly Lys Ile Ile Tyr Thr Lys Ser Val Asp Val Thr Glu Lys Leu Ala  
145 150 155 160

Cys Ile Val Glu Thr Ala Gln Gly Lys Ala Gln Val His Pro Ser Ser  
165 170 175

Val Asn Arg Asp Leu Gln Thr His Gly Trp Leu Leu Tyr Gln Glu Lys  
180 185 190

Ile Arg Tyr Ala Arg Val Tyr Leu Arg Glu Thr Thr Leu Ile Thr Pro  
195 200 205

Phe Pro Val Leu Leu Phe Gly Gly Asp Ile Glu Val Gln His Arg Glu  
210 215 220

Arg Leu Leu Ser Ile Asp Gly Trp Ile Tyr Phe Gln Ala Pro Val Lys  
225 230 235 240

Ile Ala Val Ile Phe Lys Gln Leu Arg Val Leu Ile Asp Ser Val Leu  
245 250 255

Arg Lys Lys Leu Glu Asn Pro Lys Met Ser Leu Glu Met Thr Arg Phe  
260 265 270

Cys Arg Ser Leu Arg Asn Xaa  
275

<210> 259

<211> 69

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (69)

<223> Xaa equals stop translation

<400> 259

Met Lys Val Leu Ser Trp Ile His Phe Ile Leu Ile Ser Leu His Phe  
1 5 10 15

Thr Ser Ser Leu Asp Pro Ser Ser Arg Gly Leu Gly Thr Phe Thr Asp  
20 25 30

Ala Leu Pro Asp Ser Arg Ala Lys Val Trp Glu Gly Glu Met Glu Glu  
35 40 45

Cys Pro Pro Val Cys Val Val Leu Cys Ala Thr Ala Thr Asp Ala Glu  
50 55 60

Gly Phe Ser Gly Xaa  
65

0010667 002804



<210> 260  
 <211> 122  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (122)  
 <223> Xaa equals stop translation

<400> 260  
 Met Ile Met Ala Gln Lys Ile Gly Gly Leu Thr Trp Trp Ala Ile Met  
 1 5 10 15  
 Phe Ile Ile Leu Phe Glu Ile Thr Gly Thr Ser Ser Ser Phe Leu Arg  
 20 25 30  
 Ile Asn Ala Leu Pro His Phe Ser Met Asn Arg Cys Gly Glu Ala Tyr  
 35 40 45  
 Phe Pro Phe Ser Tyr Leu Tyr Thr Ser Leu Gln Lys Gln Phe Leu Met  
 50 55 60  
 Lys Val Ser Gly Ile Val Lys Asn Leu Arg Gly Asn Asp Asp Trp Arg  
 65 70 75 80  
 Cys Phe Gly Val Phe Phe Cys Ile His Phe Leu Met Arg Lys Val Leu  
 85 90 95  
 Asn Val Val Gln Val Arg Pro Asn Tyr Tyr Leu Thr Ile Ile Gly Arg  
 100 105 110  
 Phe Tyr Val Ser Val Lys Val Phe Lys Xaa  
 115 120

<210> 261  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (59)  
 <223> Xaa equals stop translation

<400> 261  
 Met Gly Lys Ile Cys Lys Asn Trp Val Ser Phe Leu Asp Asn Val Leu  
 1 5 10 15  
 Leu Leu Ile Leu Phe Leu Tyr Gly Leu Cys Leu Gly Trp Leu Cys Ile  
 20 25 30  
 Tyr His Gln Ser Tyr Ser Thr Ala Cys Ile Cys Val Val Thr Asp Ala  
 35 40 45  
 Glu Ile Gln Gln Lys Ser Leu His Ser Ile Xaa

50

55

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<210> 262
<211> 68
<212> PRT
<213> Homo sapiens
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```
<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals stop translation
```

<400> 262  
Met Leu Val Leu Leu Trp Leu Gly Trp Ile Ser Ser Lys Ser Met Leu  
1 5 10 15

Ala Ala Tyr Phe Val Ala Pro Lys Tyr Pro Leu Lys Leu Ala Leu Val  
20 25 30

Ser Glu Pro Glu Ser Ser Ser Leu Ile Leu Lys Phe Leu Ser Leu Lys  
35 40 45

Asp Phe Leu Cys Cys Tyr Thr Thr Lys Leu Ser Val Asn Pro Pro Leu  
50 55 60

Leu Asn Asp Xaa  
65

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<210> 263
<211> 46
<212> PRT
<213> Homo sapiens
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```
<220>
<221> SITE
<222> (46)
<223> Xaa equals stop translation
```

<400> 263  
Met Val Ser Phe His Phe Gln Cys Thr Ser Tyr Phe Val Arg Leu Phe  
1 5 10 15

Phe Gln Leu Gln Leu Phe Val Gly Leu Val Ile Val Leu Ala Leu Leu  
20 25 30

Ile Ser His Ser Leu Thr Tyr Ser Phe His Lys His Leu Xaa  
35 40 45

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<210> 264
<211> 71
<212> PRT
<213> Homo sapiens
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<220>  
<221> SITE  
<222> (71)

<223> Xaa equals stop translation

<400> 264

Met Thr His Trp Ser Gly Cys Ala Ala Leu Tyr Leu Ile Phe Leu Ser  
1 5 10 15

Leu Lys Leu Ala Phe Gln Ala Gly Ala Gly Arg Gly Ala Gln Val Gly  
20 25 30

Ser Val Leu Pro Pro Ser Gly Gly Ala Val Val Val Asp Gln Tyr Cys  
35 40 45

Cys Arg Leu Ser Ala Gln Thr Tyr Phe Ser Leu Pro Ala Leu Gln Lys  
50 55 60

Cys Ile Gly Ile Cys Arg Xaa  
65 70

<210> 265

<211> 41

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (41)

<223> Xaa equals stop translation

<400> 265

Met Val Ala Met Val Phe Leu Lys Ile Ser Val Leu Pro Leu Met Cys  
1 5 10 15

Arg Gly Gln Thr Lys His Lys Val Leu Arg Asp His Ala Tyr Pro Arg  
20 25 30

Val Ser Gln Lys Arg Gly His Ile Xaa  
35 40

<210> 266

<211> 72

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (72)

<223> Xaa equals stop translation

<400> 266

Met Val Gln Gly Pro Leu Thr His Leu Met Leu Val Leu Leu Ile Ser  
1 5 10 15

Leu Ile Phe Leu Ser Arg Gly Ser Gly Arg Ala Trp Ala Phe Ser His  
20 25 30

Ser Cys Phe Lys Thr Ser Asp Leu Leu Pro Cys Arg Asn Arg Trp Glu  
35 40 45

Val Ile Glu Phe Leu His Tyr Ser Asn Leu His Ser His Ile Ser Leu  
50 55 60

Ser Val Thr Lys Thr Phe Leu Xaa  
65 70

<210> 267  
<211> 100  
<212> PRT  
<213> Homo sapiens

<400> 267  
Gly Arg Ala Phe Ala Leu Arg Thr Met Leu Pro Val Val Ser Ser Val  
1 5 10 15

Phe Ala Leu Pro Phe Tyr Leu Asn Phe Arg Ile Tyr Tyr Phe Lys Ile  
20 25 30

Leu Ser Tyr Leu Asn Val Ile His Phe Ser Ser Thr Asn Phe Glu Tyr  
35 40 45

His Ser Phe Val Leu Leu Asp Leu His Ser Leu Arg Ser Trp Gly Ala  
50 55 60

Lys Leu Gly Leu Arg Phe Gly Gly Phe Arg Ser Arg Val Leu Ser Gly  
65 70 75 80

Gly Ser Ala Ser Asn Ala Asp Trp Arg Phe Cys Ser Asn Ala Phe Ala  
85 90 95

Ser Ser Ala His  
100

<210> 268  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 268  
Leu Pro Val Val Ser Ser Val Phe Ala Leu Pro Phe Tyr Leu Asn Phe  
1 5 10 15

Arg Ile Tyr Tyr Phe  
20

<210> 269  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 269  
Ser Phe Val Leu Leu Asp Leu His Ser Leu Arg Ser Trp Gly Ala Lys  
1 5 10 15

Leu Gly Leu Arg Phe

20

<210> 270  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 270  
 Phe Gly Gly Phe Arg Ser Arg Val Leu Ser Gly Gly Ser Ala Ser Asn  
 1 5 10 15

Ala Asp Trp Arg  
 20

<210> 271  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 271  
 Phe Lys Ile Leu Ser Tyr Leu Asn Val Ile His Phe Ser Ser Thr Asn  
 1 5 10 15

Phe Glu Tyr His Ser  
 20

<210> 272  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 272  
 Gly Ala Gly Lys Arg Pro Gln Val Leu Thr Phe Pro Glu Tyr Ile Thr  
 1 5 10 15

Ser Leu Ser Asp Ser Gly Thr Lys Arg Met Ala Ala Gly Val Arg Met  
 20 25 30

Glu Cys Gln Ser Lys Gly Arg Cys Pro Ser Ser Cys Pro Leu Cys His  
 35 40 45

Val Thr Ser Ser Pro Asp Thr Pro Ala Glu Pro Val Leu Leu Glu Val  
 50 55 60

Thr Lys Ala Ala Pro Ile Tyr Glu Leu Val Thr Asn Asn Gln Thr Gln  
 65 70 75 80

Arg Leu Leu Gln Glu Ala Thr Met Ser Ser Leu Trp Cys Ser Gly Thr  
 85 90 95

Gly Asp Val Ile Glu Asp Trp Cys Arg Cys Asp Ser Thr Ala Phe Gly  
 100 105 110

Ala Asp Gly Leu Pro Thr Cys Ala Pro Leu Pro Gln Pro Val Tyr Gly  
 115 120 125

Ser Leu Ser Leu Phe Gln His Tyr Ser Gly Asn Arg  
 130 135 140

<210> 273  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 273  
 Thr Phe Pro Glu Tyr Ile Thr Ser Leu Ser Asp Ser Gly Thr Lys Arg  
 1 5 10 15

Met Ala Ala Gly  
 20

<210> 274  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 274  
 Gly Val Arg Met Glu Cys Gln Ser Lys Gly Arg Cys Pro Ser Ser Cys  
 1 5 10 15

Pro Leu Cys His Val  
 20

<210> 275  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 275  
 Val Thr Ser Ser Pro Asp Thr Pro Ala Glu Pro Val Leu Leu Glu Val  
 1 5 10 15

Thr Lys Ala Ala Pro  
 20

<210> 276  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 276  
 Pro Ile Tyr Glu Leu Val Thr Asn Asn Gln Thr Gln Arg Leu Leu Gln  
 1 5 10 15

Glu Ala Thr Met  
 20

<210> 277  
 <211> 84  
 <212> PRT

<213> Homo sapiens

<400> 277

Cys Leu Ser Ile Ala Leu Ser Asn Ala Leu His Ser Leu Asp Gly Ala  
1 5 10 15

Thr Ser Arg Ala Asp Phe Val Ala Leu Leu Asp Gln Phe Gly Asn His  
20 25 30

Tyr Ile Gln Glu Ala Ile Tyr Gly Phe Glu Glu Ser Cys Ser Ile Trp  
35 40 45

Tyr Pro Asn Lys Gln Val Gln Arg Arg Leu Trp Leu Glu Tyr Glu Asp  
50 55 60

Ile Ser Lys Gly Asn Ser Pro Ser Asp Glu Ser Glu Glu Arg Glu Arg  
65 70 75 80

Asp Pro Lys Cys

<210> 278

<211> 21

<212> PRT

<213> Homo sapiens

<400> 278

Met Ser Ser Leu Trp Cys Ser Gly Thr Gly Asp Val Ile Glu Asp Trp  
1 5 10 15

Cys Arg Cys Asp Ser  
20

<210> 279

<211> 50

<212> PRT

<213> Homo sapiens

<400> 279

Asn Ser Ala Arg Ala Glu Ala Glu Glu Leu Ser Pro Leu Leu Ser Asn  
1 5 10 15

Glu Leu His Arg Gln Arg Ser Pro Gly Val Ser Phe Gly Leu Ser Val  
20 25 30

Phe Asn Leu Met Asn Ala Ile Met Gly Ser Gly Ile Leu Gly Leu Ala  
35 40 45

Tyr Val  
50

<210> 280

<211> 21

<212> PRT

<213> Homo sapiens

&lt;400&gt; 280

Leu Ser Pro Leu Leu Ser Asn Glu Leu His Arg Gln Arg Ser Pro Gly  
 1 5 10 15

Val Ser Phe Gly Leu  
 20

&lt;210&gt; 281

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 281

Leu Ser Val Phe Asn Leu Met Asn Ala Ile Met Gly Ser Gly Ile Leu  
 1 5 10 15

Gly Leu Ala Tyr Val  
 20

&lt;210&gt; 282

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 282

His Leu Gly Arg Gly Phe Val Pro Gly Ile Leu Gly His Trp Leu Gly  
 1 5 10 15

Phe Glu Glu Arg Ser Gln Tyr Leu Pro Gly Cys Arg  
 20 25

&lt;210&gt; 283

&lt;211&gt; 110

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 283

Phe Tyr Ile Ala Asp His Ser Phe Thr Ala Arg Pro Thr Leu Arg Met  
 1 5 10 15

Phe Arg Ile Ser Ala Val Val Ala Thr Asp Lys Met Thr Phe Thr Ser  
 20 25 30

Gly Gly Thr Leu Phe Gly Asp Gly Cys Ala Ser Ser Val Ala Gly Glu  
 35 40 45

Val Met Asn Cys Gln Thr Val Leu Cys Ile Leu Trp Thr Pro Phe Val  
 50 55 60

Phe Cys Pro Ser Ile Ala Val Ile Ile Ile Pro Cys Val Phe Thr Ser  
 65 70 75 80

Lys Ala Leu Glu Ala Ile Trp Lys Trp Cys Arg Val Glu Arg Arg Pro  
 85 90 95

His Ile Ile Glu Val Asp Val Leu Gly Lys Cys Pro Ala Phe



100

105

110

&lt;210&gt; 284

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 284

Arg Pro Thr Leu Arg Met Phe Arg Ile Ser Ala Val Val Ala Thr Asp  
 1 5 10 15

Lys Met Thr Phe Thr Ser Gly Gly Thr  
 20 25

&lt;210&gt; 285

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 285

Pro Ser Ile Ala Val Ile Ile Ile Pro Cys Val Phe Thr Ser Lys Ala  
 1 5 10 15

Leu Glu Ala Ile Trp Lys Trp Cys Arg Val Glu Arg  
 20 25

&lt;210&gt; 286

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 286

Thr Ser Val Ser Phe His His Arg Tyr Lys Ser Ser Asp Arg Pro Ala  
 1 5 10 15

His Lys Val Ser  
 20

&lt;210&gt; 287

&lt;211&gt; 1187

&lt;212&gt; DNA

&lt;213&gt; Homo sapiens

&lt;400&gt; 287

GGGTCGACCC	ACGCGTCCGG	TAAATATAA	AGAAACTGAA	CCAGTGTGTC	TTTTCACCAT	60
AGATATAAGA	GTTCCGACCG	CCCAGCACAC	AAGGTCAGCA	TGCTGCTCCT	CTGTCAAGCT	120
CTCGCTATAG	CTGTTGTCCA	GATCGTTATC	TTCTCAGAAA	GCTGGGCATT	TGCCAAGAAC	180
ATCAACTTCT	ATAATGTGAG	GCCTCCTCTC	GACCCTACAC	CATTTCCAAA	TAGCTTCAAG	240
TGCTTTACTT	GTGAAAACGC	AGGGGATAAT	TATAACTGCA	ATCGATGGGC	AGAAGACAAA	300
TGGTGTCCAC	AAAATACACA	GTACTGTTTG	ACAGTTCATC	ACTTCACCA	CCACGGAAGA	360

AGCACATCCA TCACCAAAAA GTGTGCCTCC AGAAGTGAAT GTCATTTTGT CGGTGCCCAC 420  
 CACAGCCGAG ATTCTGAACA TACGGAGTGT AGTCTTGCT GTGAAGGAAT GATCTGCAAT 480  
 GTAGAATTAC CCACCAATCA CACTAATGCA GTGTTTGCCG TAATGCACGC TCAGAGAACA 540  
 TCTGGCAGCA GTGCCCCAC ACTCTACCTA CCAGTGCTTG CCTGGGTCTT TGTGCTTCCA 600  
 TTGCTGTGAT GCCACCATTCT TAGGAGAGG CAGAGACCAG CCTCTAAAGC ACAAGCCAAA 660  
 AACTGTGTGA ACGGTGAAC TTGGAGTGAA GATCAATCTT GCACCTGGTG AAGAGTGCAC 720  
 ATTGAGCCTC AAGGCGAAG CCAGTGCTTT GCTTGATAA AATGTTCCCG CATGAGGCCA 780  
 CAGGACTGAG GATGGGAATT TGGCAGGCC TGAGAAGATG GTCTGACTTC CAGGCTTCCT 840  
 GGTCAAAGAG AGCTACGTTT GGGCAGTTCT GCAGAGAGGA TCCTGGCAAC TAGTCCCACC 900  
 TGACTAGGCC TTTAGCTGAA AAGGATTCTT TGACCTCCTT GACTGCCTCA GAGGCTGCCA 960  
 GGTCAAACCC TCTGTGTTAT GTGATTAGCT CAGAGCATCT CTATGAAATC TAACCCCTCC 1020  
 CCTCATGAGA AAGCAGTTTT CCCACCAAC AGCATAGTCA ATGAGAAAGG CAACGTGTACG 1080  
 AAGAAAACTT CCAGTGAAC TAATATGAAA TCTATTGCA AATTATGGGG GGAATAAAG 1140  
 CTTTTAAATT ATACAATGTA AAAAAAAAAA AAAAAAAAAA AAAAAA 1187

<210> 288  
 <211> 169  
 <212> PRT  
 <213> Homo sapiens

<400> 288

Met Leu Leu Leu Cys His Ala Leu Ala Ile Ala Val Val Gln Ile Val  
1 5 10 15

Ile Phe Ser Glu Ser Trp Ala Phe Ala Lys Asn Ile Asn Phe Tyr Asn  
20 25 30

Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser Phe Lys Cys  
35 40 45

Phe Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala  
50 55 60

Glu Asp Lys Trp Cys Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His  
65 70 75 80

His Phe Thr Ser His Gly Arg Ser Thr Ser Ile Thr Lys Lys Cys Ala  
85 90 95

Ser Arg Ser Glu Cys His Phe Val Gly Cys His His Ser Arg Asp Ser  
100 105 110

Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile Cys Asn Val

115

120

125

Glu Leu Pro Thr Asn His Thr Asn Ala Val Phe Ala Val Met His Ala  
 130 135 140

Gln Arg Thr Ser Gly Ser Ser Ala Pro Thr Leu Tyr Leu Pro Val Leu  
 145 150 155 160

Ala Trp Val Phe Val Leu Pro Leu Leu  
 165

&lt;210&gt; 289

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 289

Ile Ala Val Val Gln Ile Val Ile Phe Ser Glu Ser Trp Ala Phe Ala  
 1 5 10 15

Lys Asn Ile Asn Phe  
 20

&lt;210&gt; 290

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 290

Phe Tyr Asn Val Arg Pro Pro Leu Asp Pro Thr Pro Phe Pro Asn Ser  
 1 5 10 15

Phe Lys Cys Phe Thr  
 20

&lt;210&gt; 291

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 291

Thr Cys Glu Asn Ala Gly Asp Asn Tyr Asn Cys Asn Arg Trp Ala Glu  
 1 5 10 15

Asp Lys Trp Cys Pro  
 20

&lt;210&gt; 292

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 292

Pro Gln Asn Thr Gln Tyr Cys Leu Thr Val His His Phe Thr Ser His  
 1 5 10 15

Gly Arg Ser Thr Ser  
20

<210> 293  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 293  
Ser Ile Thr Lys Lys Cys Ala Ser Arg Ser Glu Cys His Phe Val Gly  
1 5 10 15

Cys His His Ser Arg  
20

<210> 294  
<211> 21  
<212> PRT  
<213> Homo sapiens

<400> 294  
Arg Asp Ser Glu His Thr Glu Cys Arg Ser Cys Cys Glu Gly Met Ile  
1 5 10 15

Cys Asn Val Glu Leu  
20

<210> 295  
<211> 115  
<212> PRT  
<213> Homo sapiens

<400> 295  
Arg His Asn Asp Phe Asn Lys Leu Ser Tyr Thr Glu Cys Asn Asn Met  
1 5 10 15

Asn Lys Arg Met Ala Lys Pro Glu Lys Lys Lys Gly Ser Val Lys Ser  
20 25 30

Ser Leu Gly Ile Phe Leu Gly Pro Asn Cys His Leu Ile Ser Ser Leu  
35 40 45

Phe Leu Phe Ser Val Ser Leu Tyr Pro Phe Ala Thr Gln Phe Pro Phe  
50 55 60

His Tyr Val Leu Ile Phe Ile Ile Gln Ala Phe Gly Leu Cys Leu Pro  
65 70 75 80

Leu Thr Glu Arg Gln Glu Ala Lys Ser Gly Leu Gly Gly Leu Cys Pro  
85 90 95

Asp Tyr Thr Trp Pro Cys Pro Cys Leu Leu Val Ser Cys Leu Ser Leu  
100 105 110

Leu Arg Leu

115

<210> 296  
 <211> 114  
 <212> PRT  
 <213> Homo sapiens

<400> 296  
 Cys Glu Val Phe Ser Trp His Phe Pro Trp Ser Lys Leu Ser Pro His  
 1 5 10 15  
 Leu Phe Leu Val Ser Phe Leu Cys Ile Pro Leu Ser Leu Cys His Thr  
 20 25 30  
 Val Ser Phe Ser Leu Cys Ser Asn Ile Tyr Asn Pro Gly Leu Arg Thr  
 35 40 45  
 Met Leu Ala Pro His Arg Glu Thr Gly Gly Gln Val Trp Ala Gly Trp  
 50 55 60  
 Ala Leu Ser Arg Leu His Val Ala Leu Pro Met Ser Leu Gly Val Leu  
 65 70 75 80  
 Ser Leu Pro Ala Pro Thr Val Thr Val Val Arg Met Glu Gly Gly Asp  
 85 90 95  
 Trp Lys Val Cys Glu Gln Leu Gly Gln Cys Thr Tyr Ser His Arg Met  
 100 105 110  
 Thr Lys

<210> 297  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 297  
 Lys Arg Met Ala Lys Pro Glu Lys Lys Lys Gly Ser Val Lys Ser Ser  
 1 5 10 15  
 Leu Gly Ile Phe Leu Gly Pro  
 20

<210> 298  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 298  
 Tyr Asn Pro Gly Leu Arg Thr Met Leu Ala Pro His Arg Glu Thr Gly  
 1 5 10 15  
 Gly Gln Val Trp Ala Gly Trp Ala Leu Ser Arg Leu His Val Ala  
 20 25 30

<210> 299  
 <211> 9  
 <212> PRT  
 <213> Homo sapiens

<400> 299  
 Ser Cys Lys Thr Glu Asn Leu Leu Glu  
 1 5

<210> 300  
 <211> 50  
 <212> PRT  
 <213> Homo sapiens

<400> 300  
 Glu Cys Gly Ser Trp Ala Gly Phe His Thr Ser Ser Phe Pro Arg Pro  
 1 5 10 15

Ser Ala Leu Ala Leu Ala Ala Trp Arg Arg Trp Gly Ser Ile Cys His  
 20 25 30

Leu His Thr Ala Gly Phe Ile Phe Gly Ala Ala Pro Arg Gly Asn Lys  
 35 40 45

Cys Arg  
 50

<210> 301  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 301  
 Thr Ser Ser Phe Pro Arg Pro Ser Ala Leu Ala Leu Ala Ala Trp Arg  
 1 5 10 15

Arg Trp Gly Ser Ile  
 20

<210> 302  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 302  
 Ile Cys His Leu His Thr Ala Gly Phe Ile Phe Gly Ala Ala Pro Arg  
 1 5 10 15

Gly Asn Lys Cys Arg  
 20

<210> 303  
 <211> 25  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 303

Pro Asp Thr Leu Asp Lys Ser Pro Leu Ala Pro Gly Ser Ser Leu Val  
 1 5 10 15

Asp Pro Gln Ile Ser Leu Trp Val Leu  
 20 25

&lt;210&gt; 304

&lt;211&gt; 251

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 304

Met Ser Pro Tyr Ala Ser Gln Gly Phe Pro Phe Leu Pro Pro Tyr Pro  
 1 5 10 15

Pro Gln Glu Ala Asn Arg Ser Ile Thr Ser Leu Ser Val Ala Asp Thr  
 20 25 30

Val Ser Ser Ser Thr Thr Ser His Thr Thr Ala Lys Pro Ala Ala Pro  
 35 40 45

Ser Phe Gly Val Leu Ser Asn Leu Pro Leu Pro Ile Pro Thr Val Asp  
 50 55 60

Ala Ser Ile Pro Thr Ser Gln Asn Gly Phe Gly Tyr Lys Met Pro Asp  
 65 70 75 80

Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val Ser Gln Leu  
 85 90 95

Thr Asp Met Asn Glu Gln Glu Glu Val Leu Leu Glu Gln Phe Leu Thr  
 100 105 110

Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp Asp Leu Val Lys  
 115 120 125

Ser Ile Glu Glu Leu Ala Arg Lys Asn Leu Leu Leu Glu Pro Ser Leu  
 130 135 140

Glu Ala Lys Arg Gln Thr Val Leu Asp Lys Tyr Glu Leu Leu Thr Gln  
 145 150 155 160

Met Lys Ser Thr Phe Glu Lys Lys Met Gln Arg Gln His Glu Leu Ser  
 165 170 175

Glu Ser Cys Ser Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala  
 180 185 190

His Glu Ala Glu Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu  
 195 200 205

Gly Lys Met Glu Ile Asp Asp Phe Leu Ser Ser Phe Met Glu Lys Arg  
 210 215 220

Thr Ile Cys His Cys Arg Arg Ala Lys Glu Glu Lys Leu Gln Gln Ala

225                      230                      235                      240

Ile Ala Met His Ser Gln Phe His Ala Pro Leu  
245                      250

<210> 305

<211> 23

<212> PRT

<213> Homo sapiens

<400> 305

Leu Pro Pro Tyr Pro Pro Gln Glu Ala Asn Arg Ser Ile Thr Ser Leu  
1                      5                      10                      15

Ser Val Ala Asp Thr Val Ser  
20

<210> 306

<211> 27

<212> PRT

<213> Homo sapiens

<400> 306

Thr Ala Lys Pro Ala Ala Pro Ser Phe Gly Val Leu Ser Asn Leu Pro  
1                      5                      10                      15

Leu Pro Ile Pro Thr Val Asp Ala Ser Ile Pro  
20                      25

<210> 307

<211> 25

<212> PRT

<213> Homo sapiens

<400> 307

Pro Asp Val Pro Asp Ala Phe Pro Glu Leu Ser Glu Leu Ser Val Ser  
1                      5                      10                      15

Gln Leu Thr Asp Met Asn Glu Gln Glu  
20                      25

<210> 308

<211> 29

<212> PRT

<213> Homo sapiens

<400> 308

Gln Phe Leu Thr Leu Pro Gln Leu Lys Gln Ile Ile Thr Asp Lys Asp  
1                      5                      10                      15

Asp Leu Val Lys Ser Ile Glu Glu Leu Ala Arg Lys Asn  
20                      25

<210> 309



<211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 309  
 Arg Gln Thr Val Leu Asp Lys Tyr Glu Leu Leu Thr Gln Met Lys Ser  
 1 5 10 15  
 Thr Phe Glu Lys Lys Met Gln Arg Gln  
 20 25

<210> 310  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 310  
 Ala Ser Ala Leu Gln Ala Arg Leu Lys Val Ala Ala His Glu Ala Glu  
 1 5 10 15  
 Glu Glu Ser Asp Asn Ile Ala Glu Asp Phe Leu Glu  
 20 25

<210> 311  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 311  
 Met Glu Lys Arg Thr Ile Cys His Cys Arg Arg Ala Lys Glu Glu Lys  
 1 5 10 15  
 Leu Gln Gln Ala Ile Ala Met His Ser Gln Phe  
 20 25

<210> 312  
 <211> 19  
 <212> PRT  
 <213> Homo sapiens

<400> 312  
 Leu Leu Leu Gln Gln His Phe Leu Ile Tyr Thr Val Thr Gln Val Gly  
 1 5 10 15  
 Cys Leu Leu

<210> 313  
 <211> 16  
 <212> PRT  
 <213> Homo sapiens

<400> 313  
 Glu Phe Gly Thr Arg Lys Ser Lys Ser Lys Ile Asn Ile Lys Glu Glu  
 1 5 10 15

<210> 314  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 314  
 Gly Thr Ser Ser Lys Val Val Thr Gln Lys Val His Leu Ser Ser Val  
 1 5 10 15

Glu Phe Pro Phe  
 20

<210> 315  
 <211> 69  
 <212> PRT  
 <213> Homo sapiens

<400> 315  
 Thr Arg Pro Val Phe Leu Ser Met Thr Pro Leu Lys Gly Ile Lys Ser  
 1 5 10 15

Val Ile Leu Pro Gln Val Phe Leu Cys Ala Tyr Met Ala Ala Phe Asn  
 20 25 30

Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro Leu Glu Arg Ser  
 35 40 45

Leu Leu Met Ala Gly Ala Val Ala Ser Ser Thr Phe Leu Gly Val Ile  
 50 55 60

Pro Gln Phe Val Gln  
 65

<210> 316  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 316  
 Pro Leu Lys Gly Ile Lys Ser Val Ile Leu Pro Gln Val Phe Leu Cys  
 1 5 10 15

Ala Tyr Met Ala Ala  
 20

<210> 317  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 317

Ala Phe Asn Ser Ile Asn Gly Asn Arg Ser Tyr Thr Cys Lys Pro Leu  
 1 5 10 15

Glu Arg Ser Leu Leu  
 20

<210> 318

<211> 19

<212> PRT

<213> Homo sapiens

<400> 318

Pro Glu Ser Pro Val Tyr Pro Arg Arg Arg Thr Phe Ser Pro Asn Pro  
 1 5 10 15

Ser Pro Ile

<210> 319

<211> 11

<212> PRT

<213> Homo sapiens

<400> 319

Asn Val Ser Ala Asn Leu Asn Phe His Val His  
 1 5 10

<210> 320

<211> 129

<212> PRT

<213> Homo sapiens

<400> 320

Met Ser Asp Phe Glu Lys Val Asp Ile Ser Val His Gln His Ile His  
 1 5 10 15

Val Gly Pro Leu Leu Met Thr Thr Glu Ser Trp Gly Pro Ser Cys  
 20 25 30

Ala Pro Ser Pro Ala Leu Leu Ser Gly His Thr Ala Ala Ser Phe Thr  
 35 40 45

His Thr Leu Gly Gly Val Leu Gly Cys Pro Pro Tyr His Lys Phe Tyr  
 50 55 60

Ser Ser Ala His Thr Ser Asp His Arg Lys Glu Thr Asn Lys Val Glu  
 65 70 75 80

Glu Gly Arg Trp Val Asp Val Thr Arg Ser Leu Gly Asn Phe Asn Phe  
 85 90 95

Arg Arg Lys Phe Phe Cys Val Ser Glu Leu Leu Ile Cys Gly Ile Phe  
 100 105 110

Leu Asp Ser Ser Trp Lys Leu Gln Ile Asn Ser Asn Asp Cys Lys Val  
 115 120 125

Leu

&lt;210&gt; 321

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 321

Val	Gly	Pro	Leu	Leu	Leu	Met	Thr	Thr	Glu	Ser	Trp	Gly	Pro	Ser	Cys
1				5					10					15	

Ala	Pro	Ser	Pro	Ala	Leu	Leu	Ser	Gly	His	Thr	Ala	Ala	Ser
			20					25					30

&lt;210&gt; 322

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 322

Glu	Thr	Asn	Lys	Val	Glu	Glu	Gly	Arg	Trp	Val	Asp	Val	Thr	Arg	Ser
1				5				10						15	

Leu	Gly	Asn	Phe	Asn	Phe	Arg	Arg	Lys	Phe	Phe
			20					25		

&lt;210&gt; 323

&lt;211&gt; 10

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 323

Gln	Ser	Pro	Arg	Val	Arg	Ser	Leu	Gly	Asp
1					5				10

&lt;210&gt; 324

&lt;211&gt; 50

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 324

Gly	Gly	Pro	Met	Lys	Asp	Cys	Glu	Tyr	Ser	Gln	Ile	Ser	Thr	His	Ser
1				5					10					15	

Ser	Ser	Pro	Met	Glu	Ser	Pro	His	Lys	Lys	Lys	Lys	Ile	Ala	Ala	Arg
			20					25						30	

Arg	Lys	Trp	Glu	Val	Phe	Pro	Gly	Arg	Asn	Lys	Phe	Phe	Cys	Asn	Gly
			35					40					45		

Arg	Ile
	50

<21.3> Homo sapiens

15

20

<213> Homo sapiens

15

20

<213> Homo sapiens

15

25

<213> Homo sapiens

15

30

45

60

Thr Pro Phe Ser Gly Ala Ser Thr Ser Gln Ala Phe

65

70

75

<210> 329  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 329  
 Thr Pro Leu Leu Ser Pro Cys Leu Gln Pro Leu Pro Gly Val  
 1 5 10

<210> 330  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 330  
 Thr Arg Arg Ser Cys Ser Ser Gln Val Ser Ser  
 1 5 10

<210> 331  
 <211> 140  
 <212> PRT  
 <213> Homo sapiens

<400> 331  
 Gly Arg Gly Asp Lys Pro Arg Gln Asp Arg Pro Ala Ser Leu Arg Leu  
 1 5 10 15

Lys Gly Pro Pro Ser Cys Gln Ala Pro Ala Ser His Ser Ser Thr Leu  
 20 25 30

Ser Ser His Cys Pro Cys Ser Leu Phe Ala Cys Gly Ser Val Trp Pro  
 35 40 45

Gly Ser Leu Gly Ser Gly Ile Phe Ala Arg Leu Ser Gln Leu Leu Pro  
 50 55 60

Ser Pro Ala Ser Trp Gly Trp Asp Phe Leu Thr Leu Arg Gln Ala Gln  
 65 70 75 80

Gln Met Leu Gly Pro Ser Leu Cys Pro Gly His Ser Thr Ser Ala His  
 85 90 95

Gln His Tyr Gly Ala Tyr Val Leu Pro Arg Asp Leu Cys Ser Phe Leu  
 100 105 110

Leu Thr Ser Thr Val Gln Gly Thr Ala Pro Leu Lys Asn Ser Arg Val  
 115 120 125

Thr Cys Leu Ile Gly Ser Gln Gln Val Pro Leu Cys  
 130 135 140

<210> 332  
 <211> 146

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 332

Ala Glu Val Thr Ser Pro Ala Lys Thr Asp Leu Gln Val Phe Val Ser  
 1 5 10 15

Arg Asp Leu Pro His Ala Arg Pro Leu Pro Leu Thr Ala Ala Pro Phe  
 20 25 30

Pro Leu Ile Val Pro Val Pro Phe Leu Pro Val Asp Leu Phe Gly Gln  
 35 40 45

Gly Pro Trp Gly Gln Glu Tyr Leu Gln Asp Ser Ala Ser Ser Phe Pro  
 50 55 60

Ala Gln Pro Leu Gly Ala Gly Thr Phe Ser Pro Cys Gly Arg His Asn  
 65 70 75 80

Arg Cys Trp Asp Pro Val Ser Ala Gln Val Thr Ala Gln Val His Ile  
 85 90 95

Ser Thr Met Gly Pro Met Ser Cys Pro Glu Thr Ser Ala Pro Ser Cys  
 100 105 110

Ser His Pro Gln Phe Arg Ala Arg Arg Pro Ser Arg Thr Pro Glu Ser  
 115 120 125

Pro Val Ser Ser Ala Pro Ser Lys Cys Leu Phe Val Tyr Asp Val Pro  
 130 135 140

Leu Leu  
 145

&lt;210&gt; 333

&lt;211&gt; 30

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 333

Ser Leu Arg Leu Lys Gly Pro Pro Ser Cys Gln Ala Pro Ala Ser His  
 1 5 10 15

Ser Ser Thr Leu Ser Ser His Cys Pro Cys Ser Leu Phe Ala  
 20 25 30

<210> 334  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 334

Gln Gln Met Leu Gly Pro Ser Leu Cys Pro Gly His Ser Thr Ser Ala  
 1 5 10 15

His Gln His Tyr Gly Ala Tyr Val Leu Pro Arg Asp Leu Cys  
 20 25 30

<210> 335  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 335  
 Asp Leu Gln Val Phe Val Ser Arg Asp Leu Pro His Ala Arg Pro Leu  
 1 5 10 15  
 Pro Leu Thr Ala Ala Pro Phe Pro Leu Ile Val Pro Val Pro Phe  
 20 25 30

<210> 336  
 <211> 39  
 <212> PRT  
 <213> Homo sapiens

<400> 336  
 Ala Gln Val His Ile Ser Thr Met Gly Pro Met Ser Cys Pro Glu Thr  
 1 5 10 15  
 Ser Ala Pro Ser Cys Ser His Pro Gln Phe Arg Ala Arg Arg Pro Ser  
 20 25 30  
 Arg Thr Pro Glu Ser Pro Val  
 35

<210> 337  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 337  
 Gln Ala Pro Pro Arg Gln Thr Cys Lys Ser Ser Ser Gln Gly Thr Ser  
 1 5 10 15  
 Leu

<210> 338  
 <211> 314  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (27)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (111)  
 <223> Xaa equals any of the naturally occurring L-amino acids



&lt;400&gt; 338

Ala Ala Leu Arg Pro Ser Gly Ser Leu Ala Gly Pro Glu Trp Pro Trp  
 1 5 10 15

Gln His Trp Cys Gly Cys Trp Arg Glu His Xaa Val Lys Pro Gln Gln  
 20 25 30

Val Asp Leu His Ser Ala Arg Leu Trp Ala Ala Pro Ala Ala Val Gly  
 35 40 45

Pro Ala His Ala Gly Gly Ser Pro Gly Met Pro Pro Gly Gly Thr Ala  
 50 55 60

Pro His Ala Arg Arg His Ser Leu Pro Ser Pro Thr Ala Gln Ser His  
 65 70 75 80

Leu Trp His Val His Gly Leu Arg Gln Arg Gly Pro Lys Ala Val Pro  
 85 90 95

Leu Asp Leu Ala Gln Leu Val Thr Thr Thr Thr Pro Leu Phe Xaa Leu  
 100 105 110

Ala Leu Ser Ala Leu Leu Leu Gly Arg Arg His His Pro Leu Gln Leu  
 115 120 125

Ala Ala Met Gly Pro Leu Cys Leu Gly Ala Ala Cys Ser Leu Ala Gly  
 130 135 140

Glu Phe Arg Thr Pro Pro Thr Gly Cys Gly Phe Leu Leu Ala Ala Thr  
 145 150 155 160

Cys Leu Arg Gly Leu Lys Ser Val Gln Gln Ser Ala Leu Leu Gln Glu  
 165 170 175

Glu Arg Leu Asp Ala Val Thr Leu Leu Tyr Ala Thr Ser Leu Pro Ser  
 180 185 190

Phe Cys Leu Leu Ala Gly Ala Ala Leu Val Leu Glu Ala Gly Val Ala  
 195 200 205

Pro Pro Pro Thr Ala Gly Asp Ser Arg Leu Trp Ala Cys Ile Leu Leu  
 210 215 220

Ser Cys Leu Leu Ser Val Leu Tyr Asn Leu Ala Ser Phe Ser Leu Leu  
 225 230 235 240

Ala Leu Thr Ser Ala Leu Thr Val His Val Leu Gly Asn Leu Thr Val  
 245 250 255

Val Gly Asn Leu Ile Leu Ser Arg Leu Leu Phe Gly Ser Arg Leu Ser  
 260 265 270

Ala Leu Ser Tyr Val Gly Ile Ala Leu Thr Leu Ser Gly Met Phe Leu  
 275 280 285

Tyr His Asn Cys Glu Phe Val Ala Ser Trp Ala Ala Arg Arg Gly Leu  
 290 295 300

Trp Arg Arg Asp Gln Pro Ser Lys Gly Leu

305

310

<210> 339  
 <211> 66  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 339  
 Gly Gln Pro Ser Gly Pro Pro Ala Ala Trp Pro Gly Pro Ser Gly His  
 1 5 10 15

Gly Ser Thr Gly Val Ala Ala Gly Gly Ser Thr Xaa Ser Ser Leu Asn  
 20 25 30

Lys Trp Ile Phe Thr Val His Gly Phe Gly Arg Pro Leu Leu Leu Ser  
 35 40 45

Ala Leu His Met Leu Val Ala Ala Leu Ala Cys His Arg Gly Ala Arg  
 50 55 60

Arg Pro  
 65

<210> 340  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (19)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 340  
 Trp Pro Gly Pro Ser Gly His Gly Ser Thr Gly Val Ala Ala Gly Gly  
 1 5 10 15

Ser Thr Xaa Ser Ser  
 20

<210> 341  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 341

Glu Trp Pro Trp Gln His Trp Cys Gly Cys Trp Arg Glu His Xaa Val  
 1 5 10 15

Lys Pro Gln Gln Val Asp Leu His Ser Ala  
 20 25

<210> 342

<211> 28

<212> PRT

<213> Homo sapiens

<400> 342

Gln Gln Ser Ala Leu Leu Gln Glu Glu Arg Leu Asp Ala Val Thr Leu  
 1 5 10 15

Leu Tyr Ala Thr Ser Leu Pro Ser Phe Cys Leu Leu  
 20 25

<210> 343

<211> 27

<212> PRT

<213> Homo sapiens

<400> 343

Ala Cys Ile Leu Leu Ser Cys Leu Leu Ser Val Leu Tyr Asn Leu Ala  
 1 5 10 15

Ser Phe Ser Leu Leu Ala Leu Thr Ser Ala Leu  
 20 25

<210> 344

<211> 21

<212> PRT

<213> Homo sapiens

<400> 344

Ser Leu Asn Lys Trp Ile Phe Thr Val His Gly Phe Gly Arg Pro Leu  
 1 5 10 15

Leu Leu Ser Ala Leu  
 20

<210> 345

<211> 28

<212> PRT

<213> Homo sapiens

<400> 345

Glu Phe Gly Thr Ser Arg Ala Arg Leu Gln Leu Lys Lys Asn Lys Lys  
 1 5 10 15

Lys Glu Arg Asn Ile Pro Gly Thr Leu Leu Ser Ile  
 20 25

<210> 346  
 <211> 17  
 <212> PRT  
 <213> Homo sapiens

<400> 346  
 Lys Ser Thr Leu Ser Lys Ala Ala Val Val Ala Thr Ile Leu Arg Thr Leu  
 1 5 10 15

Ala

<210> 347  
 <211> 100  
 <212> PRT  
 <213> Homo sapiens

<400> 347  
 Gly Asp His Ser Glu Gln Cys Leu Ile Lys Glu Met Gly Ala Arg Glu  
 1 5 10 15  
 Arg Arg Phe Cys Lys Ala Arg Gly Tyr Arg Asp Thr Gly Arg Glu Ala  
 20 25 30  
 Gln Ala Lys Ala Gly Gly Arg Arg Gly Ser Gln Trp Asn Glu Ser Gln  
 35 40 45  
 Cys Ser Ser Gln Arg Pro Arg Pro Ala Lys Glu Val Arg Lys Thr Arg  
 50 55 60  
 Pro Arg Ala Gly Val Gly Arg Gly Pro Ala Leu Leu Gln Leu Ser Leu  
 65 70 75 80  
 Leu Gln Gln Val Val Leu Tyr Val Arg Pro Ser Leu Arg Leu Val Trp  
 85 90 95  
 Leu Lys Ala Ser  
 100

<210> 348  
 <211> 84  
 <212> PRT  
 <213> Homo sapiens

<400> 348  
 Met Glu Arg Gly Glu Tyr Gly Gly Trp Gly Thr Tyr Gly Ser Leu Asp  
 1 5 10 15  
 Leu Gly Ser Gln Leu Cys Thr Val Arg Ser Ser Gly Pro Cys Gly Ser  
 20 25 30  
 Leu His Trp Gly Gln His Arg Ser Pro Ile Ser Gly Pro Asp Pro Asn  
 35 40 45  
 Pro Ser Ser Ser Arg Gly Gln Gln Ser Ile Gly Ser Lys Val Gly Ser  
 50 55 60

Pro Ser Arg Ser Gln Trp Arg Ser Trp Lys Glu Val Gly Arg Asp Pro  
 65 70 75 80

Glu Lys Gly Glu

<210> 349

<211> 23

<212> PRT

<213> Homo sapiens

<400> 349

Gln Ala Lys Ala Gly Gly Arg Arg Gly Ser Gln Trp Asn Glu Ser Gln  
 1 5 10 15

Cys Ser Ser Gln Arg Pro Arg  
 20

<210> 350

<211> 26

<212> PRT

<213> Homo sapiens

<400> 350

Val Gly Arg Gly Pro Ala Leu Leu Gln Leu Ser Leu Leu Gln Gln Val  
 1 5 10 15

Val Leu Tyr Val Arg Pro Ser Leu Arg Leu  
 20 25

<210> 351

<211> 22

<212> PRT

<213> Homo sapiens

<400> 351

Tyr Gly Ser Leu Asp Leu Gly Ser Gln Leu Cys Thr Val Arg Ser Ser  
 1 5 10 15

Gly Pro Cys Gly Ser Leu  
 20

<210> 352

<211> 20

<212> PRT

<213> Homo sapiens

<400> 352

Lys Val Gly Ser Pro Ser Arg Ser Gln Trp Arg Ser Trp Lys Glu Val  
 1 5 10 15

Gly Arg Asp Pro  
 20

<210> 353  
 <211> 33  
 <212> PRT  
 <213> Homo sapiens

<400> 353  
 Ala Arg Gly Phe Phe Phe Tyr Ile Leu Ile Thr Arg Leu Thr Pro Ile  
 1 5 10 15  
 Lys Tyr Asp Val Asn Leu Ile Leu Thr Ala Val Thr Gly Ser Val Gly  
 20 25 30

Gly

<210> 354  
 <211> 214  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (18)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 354  
 Met Pro Gln Ser Leu Ser Ser Leu Ala Ser Ser Ser Ser Ser Phe Gln  
 1 5 10 15  
 Arg Xaa Lys Pro Cys Phe Gly Lys Lys Asn Asp Gly Glu Asn Gln Glu  
 20 25 30  
 His Ser Leu Gly Thr Glu Pro Ile Ile Thr Trp Lys Asp Phe Gln Lys  
 35 40 45  
 Thr Met Pro Trp Glu Ile Val Ile Leu Val Gly Gly Tyr Ala Leu  
 50 55 60  
 Ala Ser Gly Ser Lys Ser Ser Gly Leu Ser Thr Ile Gly Asn Gln  
 65 70 75 80  
 Met Leu Ser Leu Ser Ser Leu Pro Pro Trp Ala Val Thr Leu Leu Ala  
 85 90 95  
 Cys Ile Leu Val Ser Ile Val Thr Glu Phe Val Ser Asn Pro Ala Thr  
 100 105 110  
 Ile Thr Ile Phe Leu Pro Ile Leu Cys Ser Leu Ser Glu Thr Leu His  
 115 120 125  
 Ile Asn Pro Leu Tyr Thr Leu Ile Pro Val Thr Met Cys Ile Ser Phe  
 130 135 140  
 Ala Val Met Leu Pro Val Gly Asn Pro Pro Asn Ala Ile Val Phe Ser  
 145 150 155 160  
 Tyr Gly His Cys Gln Ile Lys Asp Met Val Lys Ala Gly Leu Gly Val  
 165 170 175

Asn Val Ile Gly Leu Val Ile Val Met Val Ala Ile Asn Thr Trp Gly  
180 185 190

Val Ser Leu Phe His Leu Asp Thr Tyr Pro Ala Trp Ala Arg Val Ser  
195 200 205

Asn Ile Thr Asp Gln Ala  
210

<210> 355

<211> 23

<212> PRT

<213> Homo sapiens

<400> 355

Asn Asp Gly Glu Asn Gln Glu His Ser Leu Gly Thr Glu Pro Ile Ile  
1 5 10 15

Thr Trp Lys Asp Phe Gln Lys  
20

<210> 356

<211> 24

<212> PRT

<213> Homo sapiens

<400> 356

Ile Gly Asn Gln Met Leu Ser Leu Ser Ser Leu Pro Pro Trp Ala Val  
1 5 10 15

Thr Leu Leu Ala Cys Ile Leu Val  
20

<210> 357

<211> 27

<212> PRT

<213> Homo sapiens

<400> 357

Ala Thr Ile Thr Ile Phe Leu Pro Ile Leu Cys Ser Leu Ser Glu Thr  
1 5 10 15

Leu His Ile Asn Pro Leu Tyr Thr Leu Ile Pro  
20 25

<210> 358

<211> 26

<212> PRT

<213> Homo sapiens

<400> 358

Leu Pro Val Gly Asn Pro Pro Asn Ala Ile Val Phe Ser Tyr Gly His  
1 5 10 15

Cys Gln Ile Lys Asp Met Val Lys Ala Gly  
20 25

<210> 359  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 359  
Leu Val Ile Val Met Val Ala Ile Asn Thr Trp Gly Val Ser Leu Phe  
1 5 10 15

His Leu Asp Thr Tyr Pro Ala Trp Ala Arg Val Ser Asn  
20 25

<210> 360  
<211> 83  
<212> PRT  
<213> Homo sapiens  
  
<220>  
<221> SITE  
<222> (68)  
<223> Xaa equals any of the naturally occurring L-amino acids

<220>  
<221> SITE  
<222> (69)  
<223> Xaa equals any of the naturally occurring L-amino acids

<400> 360  
Leu Glu His Phe Asn Asn Gln Tyr Pro Ala Ala Glu Val Val Asn Phe  
1 5 10 15

Gly Thr Trp Phe Leu Phe Ser Phe Pro Ile Ser Leu Ile Met Leu Val  
20 25 30

Val Ser Trp Phe Trp Met His Trp Leu Phe Leu Gly Cys Asn Phe Lys  
35 40 45

Glu Thr Cys Ser Leu Ser Lys Lys Lys Lys Thr Lys Arg Glu Gln Leu  
50 55 60

Ser Glu Lys Xaa Xaa Gln Glu Glu Tyr Glu Lys Leu Gly Asp Ile Ser  
65 70 75 80

Tyr Pro Glu

<210> 361  
<211> 36  
<212> PRT  
<213> Homo sapiens

<400> 361  
Gln Glu Leu Trp Pro Leu Tyr Met Asp Trp Glu Pro Asp Val Val Pro



1                      5                      10                      15  
 Glu Gln Pro Pro Thr Val Gly Cys His Pro Ala Gly Met His Pro Arg  
                                  20                                   25                                   30  
 Val His Cys His  
                                  35  
  
 <210> 362  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 362  
 Ser Thr His Ala Ser Gly Gly Gly Arg Arg Gly Arg Gly Pro Arg Gly  
                                  1                                   5                                   10                                   15  
 Glu Glu Thr Gln Pro Arg Gly Trp His Ala Arg Pro Gly Pro Gly Pro  
                                  20                                   25                                   30  
 Arg Ser Thr Gly Ala  
                                  35  
  
 <210> 363  
 <211> 133  
 <212> PRT  
 <213> Homo sapiens  
  
 <220>  
 <221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <220>  
 <221> SITE  
 <222> (46)  
 <223> Xaa equals any of the naturally occurring L-amino acids  
  
 <400> 363  
 Glu Thr Cys Pro Ser Asn Gly Ile Glu Leu Arg Gln Ala Pro Thr Ser  
                                  1                                   5                                   10                                   15  
 Leu Tyr Ile Leu Leu Leu His Ile Gln Pro Thr Pro Thr His Pro Met  
                                  20                                   25                                   30  
 Leu Gly Arg Ser Tyr Val Leu Pro Ala Phe Ser Xaa Asn Xaa Glu His  
                                  35                                   40                                   45  
 Gly Gly Leu Pro Asn Gln Ile Pro Lys Gly Asp Arg Asn Gly Asn Ile  
                                  50                                   55                                   60  
 Arg His Ser Arg Ile Thr Phe Pro Cys Ser Ser Ser Thr Leu Gln Pro  
                                  65                                   70                                   75                                   80  
 Glu Ser His Leu Gly Phe Ile Arg Ser Lys Leu His Gly Leu Val Arg  
                                  85                                   90                                   95

Pro Gly Lys Asp Leu Arg Gly Arg Arg Ser Leu Gln Leu Ser Lys His  
100 105 110

Ser Leu Ser Thr Cys Tyr Met Leu Arg Trp Glu Thr Tyr Lys Gln Val  
115 120 125

Ser Tyr Thr Ala Val  
130

<210> 364  
<211> 106  
<212> PRT  
<213> Homo sapiens

<400> 364  
Gln Arg His Gln Glu Asn Asp Lys Arg Asn Val His Arg Phe Leu His  
1 5 10 15

Thr Cys Val His Met Pro Met Cys Thr His Thr His Thr Gln Ala Val  
20 25 30

Leu Ser Thr Trp Glu Gly Gln Phe Ser Asn Val Ala Ser Phe Thr Ser  
35 40 45

Leu Lys Arg Ile Pro Leu Ser Ile Ile Tyr Ile His Ser Ser His Ser  
50 55 60

Pro Arg Arg Phe Val Lys Val Cys Gln Leu Arg Gln Glu Lys Ala Leu  
65 70 75 80

Glu Leu Thr Glu Val Tyr Val Ser Ala Ser Leu Lys Leu Gln Leu Tyr  
85 90 95

His Leu His Cys His Phe His Thr Ala Val  
100 105

<210> 365  
<211> 24  
<212> PRT  
<213> Homo sapiens

<400> 365  
Arg Gln Ala Pro Thr Ser Leu Tyr Ile Leu Leu Leu His Ile Gln Pro  
1 5 10 15

Thr Pro Thr His Pro Met Leu Gly  
20

<210> 366  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 366  
Ser His Leu Gly Phe Ile Arg Ser Lys Leu His Gly Leu Val Arg Pro  
1 5 10 15

Gly Lys Asp Leu Arg Gly Arg Arg Ser  
20 25

<210> 367

<211> 22

<212> PRT

<213> Homo sapiens

<400> 367

Arg Asn Val His Arg Phe Leu His Thr Cys Val His Met Pro Met Cys  
1 5 10 15

Thr His Thr His Thr Gln  
20

<210> 368

<211> 25

<212> PRT

<213> Homo sapiens

<400> 368

Gln Leu Arg Gln Glu Lys Ala Leu Glu Leu Thr Glu Val Tyr Val Ser  
1 5 10 15

Ala Ser Leu Lys Leu Gln Leu Tyr His  
20 25

<210> 369

<211> 31

<212> PRT

<213> Homo sapiens

<400> 369

Pro Arg Val Arg Gly Arg Lys Glu Pro Gly Cys Leu Gly Pro Gly Arg  
1 5 10 15

Ala Gly Gly Asp Ser Gln Lys Glu Ile Gly Ser Trp Gln Gln Met  
20 25 30

<210> 370

<211> 296

<212> PRT

<213> Homo sapiens

<400> 370

Leu Ser Lys Gly Asn Arg Ile Met Ala Ala Asp Asp Asp Asn Gly Asp  
1 5 10 15

Gly Thr Ser Leu Phe Asp Val Phe Ser Ala Ser Pro Leu Lys Asn Asn  
20 25 30

Asp Glu Gly Ser Leu Asp Ile Tyr Ala Gly Leu Asp Ser Ala Val Ser  
35 40 45

Asp Ser Ala Ser Lys Ser Cys Val Pro Ser Arg Asn Cys Leu Asp Leu  
50 55 60

Tyr Glu Glu Ile Leu Thr Glu Glu Gly Thr Ala Lys Glu Ala Thr Tyr  
65 70 75 80

Asn Asp Leu Gln Val Glu Tyr Gly Lys Cys Gln Leu Gln Met Lys Glu  
85 90 95

Leu Met Lys Lys Phe Lys Glu Ile Gln Thr Gln Asn Phe Ser Leu Ile  
100 105 110

Asn Glu Asn Gln Ser Leu Lys Lys Asn Ile Ser Ala Leu Ile Lys Thr  
115 120 125

Ala Arg Val Glu Ile Asn Arg Lys Asp Glu Glu Ile Ser Asn Leu His  
130 135 140

Gln Lys Ile Val Leu Ser Phe His Ile Phe Glu Ile Ile Ile Lys Leu  
145 150 155 160

Gln Gly His Leu Ile Gln Leu Lys Gln Lys Ile Leu Asn Leu Asp Leu  
165 170 175

His Ile Trp Met Ile Val Gln Arg Leu Ile Thr Arg Ala Lys Ser Asp  
180 185 190

Val Ser Lys Asp Val His His Ser Thr Ser Leu Pro Asn Leu Glu Lys  
195 200 205

Glu Gly Lys Pro His Ser Asp Lys Arg Ser Thr Ser His Leu Pro Thr  
210 215 220

Ser Val Glu Lys His Cys Thr Asn Gly Val Trp Ser Arg Ser His Tyr  
225 230 235 240

Gln Val Gly Glu Gly Ser Ser Asn Glu Asp Ser Arg Arg Gly Arg Lys  
245 250 255

Asp Ile Arg His Ser Gln Phe Asn Arg Gly Thr Glu Arg Val Arg Lys  
260 265 270

Asp Leu Ser Thr Gly Cys Gly Asp Gly Glu Pro Arg Ile Leu Glu Ala  
275 280 285

Ser Gln Arg Leu Gln Gly Thr Ser  
290 295

<210> 371

<211> 27

<212> PRT

<213> Homo sapiens

<400> 371

Asn Arg Ile Met Ala Ala Asp Asp Asp Asn Gly Asp Gly Thr Ser Leu  
1 5 10 15

Phe Asp Val Phe Ser Ala Ser Pro Leu Lys Asn

20

25

&lt;210&gt; 372

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 372

Cys Leu Asp Leu Tyr Glu Glu Ile Leu Thr Glu Glu Gly Thr Ala Lys  
 1 5 10 15

Glu Ala Thr Tyr Asn Asp Leu  
 20

&lt;210&gt; 373

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 373

Asp Glu Glu Ile Ser Asn Leu His Gln Lys Ile Val Leu Ser Phe His  
 1 5 10 15

Ile Phe Glu Ile Ile Ile Lys Leu Gln Gly  
 20 25

&lt;210&gt; 374

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 374

Glu Lys Glu Gly Lys Pro His Ser Asp Lys Arg Ser Thr Ser His Leu  
 1 5 10 15

Pro Thr Ser Val Glu Lys  
 20

&lt;210&gt; 375

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 375

Thr Glu Arg Val Arg Lys Asp Leu Ser Thr Gly Cys Gly Asp Gly Glu  
 1 5 10 15

Pro Arg Ile Leu Glu Ala Ser Gln Arg Leu  
 20 25

&lt;210&gt; 376

&lt;211&gt; 115

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 376

Lys Ser Tyr Phe Arg Thr Met Gly Gly Thr Lys Arg Gly Ile Lys Lys  
 1 5 10 15

Leu Val Asn Val Cys Leu Lys His Pro Lys Asn Thr Ser Leu Ser Gln  
 20 25 30

Gln Leu Val Phe Ala Lys Ile Asn Lys Ile Leu Ile Ser Lys Thr Thr  
 35 40 45

Lys Ser Thr Asn Leu Lys Gly Leu Lys Cys Leu Pro Leu Ser Val  
 50 55 60

Ser Ile His Pro Thr Phe Ile Tyr Tyr Lys His Asn Thr Thr Leu Arg  
 65 70 75 80

Ile Val Phe Gly Thr Tyr Phe Asp Phe Phe Pro Tyr Arg Lys Asn Lys  
 85 90 95

Asp Gln Ala Phe Glu Gly Glu Asp Trp Glu Ser Ser Leu Asn Val Ser  
 100 105 110

Asp Ala Trp  
 115

&lt;210&gt; 377

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 377

Thr Lys Arg Gly Ile Lys Lys Leu Val Asn Val Cys Leu Lys His Pro  
 1 5 10 15

Lys Asn Thr Ser Leu Ser  
 20

&lt;210&gt; 378

&lt;211&gt; 26

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 378

Ser Ile His Pro Thr Phe Ile Tyr Tyr Lys His Asn Thr Thr Leu Arg  
 1 5 10 15

Ile Val Phe Gly Thr Tyr Phe Asp Phe Phe  
 20 25

&lt;210&gt; 379

&lt;211&gt; 56

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 379

Thr Arg Pro Arg Arg His Leu Gly Gly Gln Pro Gly Ala Leu His Gly  
 1 5 10  
 Gln Ala Ala Cys Val His Val Pro Cys Leu Val Pro Leu Cys Pro Pro  
 20 25 30  
 Pro Ala Asn Leu Thr Gly Ser Pro His Asn Ser Ala Leu Gln Lys Gln  
 35 40 45  
 Pro Leu Gly Gly Arg Gly Arg Lys  
 50 55

&lt;210&gt; 380

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 380

Gln Pro Gly Ala Leu His Gly Gln Ala Ala Cys Val His Val Pro Cys  
 1 5 10 15

Leu Val Pro Leu Cys  
 20

&lt;210&gt; 381

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 381

Cys Pro Pro Pro Ala Asn Leu Thr Gly Ser Pro His Asn Ser Ala Leu  
 1 5 10 15

Gln Lys Gln Pro Leu  
 20

&lt;210&gt; 382

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 382

Pro Asp Ala Gly Thr Ala Ser Ser Gln Arg Glu Pro Arg Arg Cys Arg  
 1 5 10 15

Ala Gly Glu Ala Pro Ser Leu Pro Ala Cys Ala Pro  
 20 25

&lt;210&gt; 383

&lt;211&gt; 40

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 383

Phe Leu Ile His Leu Glu Val Ile Trp Glu Leu Gly Cys Phe Ser Pro

1                    5                    10                    15  
 Lys Ala Lys Ala Ile Ala Ser Thr Pro Val Ile Lys Gly Ser Leu Gln  
           20                    25                    30

Ile Tyr Phe Pro Cys Arg Ser Glu  
           35                    40

<210> 384

<211> 32

<212> PRT

<213> Homo sapiens

<400> 384

His Glu Ser Lys Glu Lys Cys Pro Pro Gly Pro Leu His Gln Arg Cys  
           1                    5                    10                    15

Val Phe Asn Ser Ser Gly Ala Gly Arg Val Met Ala Thr Arg Lys Arg  
           20                    25                    30

<210> 385

<211> 27

<212> PRT

<213> Homo sapiens

<400> 385

Lys Arg Thr Leu Leu Gln Arg Leu Asp Trp Ser Tyr Trp Val Asp Ser  
           1                    5                    10                    15

Trp Glu His Gln His Ser Leu His Asn Gly Trp  
           20                    25

<210> 386

<211> 12

<212> PRT

<213> Homo sapiens

<400> 386

Gly Pro Arg Gly Val Gly Asp Gly Gly Val Ser Ser  
           1                    5                    10

<210> 387

<211> 70

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (9)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>



<221> SITE  
 <222> (44)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (45)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 387  
 Gln Arg Pro His Pro Gln Pro Trp Xaa Pro Met Thr Leu Met Gly Thr  
 1 5 10 15

Gly Ile Pro Val Phe Ala His Lys Met Leu Pro Phe Asp Pro Pro Cys  
 20 25 30

His Leu Ser Cys Thr His Ile Asn Pro Lys Pro Xaa Xaa Pro Gln Gly  
 35 40 45

Asp Glu Gln Lys Ser Gln Gly Thr Glu Glu Trp Cys Asp Arg Glu Gly  
 50 55 60

Lys Lys Arg Arg Ser Ile  
 65 70

<210> 388  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 388  
 Pro Met Thr Leu Met Gly Thr Gly Ile Pro Val Phe Ala His Lys Met  
 1 5 10 15

Leu Pro Phe Asp Pro  
 20

<210> 389  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 389  
 Pro Pro Cys His Leu Ser Cys Thr His Ile Asn Pro Lys Pro Xaa Xaa  
 1 5 10 15

Pro Gln Gly Asp Glu

20

<210> 390  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 390  
 Glu Gln Lys Ser Gln Gly Thr Glu Glu Trp Cys Asp Arg Glu Gly Lys  
 1 5 10 15

Lys Arg Arg Ser Ile  
 20

<210> 391  
 <211> 70  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (64)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (65)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 391  
 Asp Glu Trp Gly Ala Gly Arg Arg Met Glu Trp Glu Asp Asn Leu Pro  
 1 5 10 15

Leu Glu Phe Ser Cys Pro Val Thr Lys Leu Leu Ser Val Pro Ser Trp  
 20 25 30

Thr Pro Leu Asp Ala Gln Met Leu Leu Leu Phe Phe Pro Ser Leu Ser  
 35 40 45

His His Ser Ser Val Pro Trp Leu Phe Cys Ser Ser Pro Cys Gly Xaa  
 50 55 60

Xaa Gly Leu Gly Phe Ile  
 65 70

<210> 392  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 392  
 Glu Trp Glu Asp Asn Leu Pro Leu Glu Phe Ser Cys Pro Val Thr Lys  
 1 5 10 15

Leu Leu Ser Val Pro  
 20

<210> 393  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 393  
 Pro Ser Trp Thr Pro Leu Asp Ala Gln Met Leu Leu Leu Phe Phe Pro  
 1 5 10 15

Ser Leu Ser His His  
 20

<210> 394  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (16)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 394  
 His Ser Ser Val Pro Trp Leu Phe Cys Ser Ser Pro Cys Gly Xaa Xaa  
 1 5 10 15

Gly Leu Gly Phe Ile  
 20

<210> 395  
 <211> 14  
 <212> PRT  
 <213> Homo sapiens

<400> 395  
 Ile Thr Glu Val Arg Lys Asp Asp Leu Lys Val Val Arg Ile  
 1 5 10

<210> 396  
 <211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 396  
 Gln Gly Leu Ser His Ile Phe Trp Met Asn Glu Gln Thr Leu Lys  
 1 5 10 15

<210> 397

<211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 397  
 Thr Leu Val Cys Leu Gly Val Ser Ser Glu Glu Gly Ser Cys Pro Arg  
 1 5 10 15  
 Asp Val Thr Gly Pro Gly Cys Cys Phe Ser Leu Thr Leu Thr Gly Phe  
 20 25 30

<210> 398  
 <211> 233  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (57)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (62)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (78)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (79)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (80)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (231)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 398  
 Ala Asp Leu Ile Val Leu Trp His His His Pro Leu Trp Pro Gln His  
 1 5 10 15  
 Leu Ala Leu Pro Ser Ser Gly Ala Ser His Asp His Val Glu Leu Thr  
 20 25 30  
 Val Tyr Pro Lys Thr Val Ala Ala Ser Trp Leu Leu Glu Leu Ser Arg  
 35 40 45

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Pro Pro Ile Phe Cys Leu Phe Thr Xaa Pro Ala Leu Thr Xaa His Gly
  50                               55                               60

Leu Asp Arg Val Ala Ala Leu Val Glu Cys Thr Ile Trp Xaa Xaa Xaa
  65                               70                               75                               80

Gly Met Trp Tyr Arg Arg Arg Tyr Ser Cys Cys Gln Phe Arg Asp Arg
                               85                               90                               95

Ser Ile Arg Asp Val Phe Pro Glu Ala Val Met Leu Gln Gln His Leu
  100                               105                               110

Arg His Leu Ala Val Ala Thr Tyr Arg Cys Arg Arg Arg Ser Pro Cys
  115                               120                               125

Lys Ala Pro Thr Val Glu Glu Ala Glu Gly Gly Lys Pro Arg Ala Val
  130                               135                               140

Pro Ser Gly Thr Gly Phe Gln Lys His Gly Gln Glu Pro Gly Gly Ser
  145                               150                               155                               160

Thr Ser Pro His Trp Phe Trp Gly His Leu Gln Leu Leu Val Leu Ser
  165                               170                               175

Val Asn Asn Arg Gln Leu Phe Val Gln Gly Arg Ala Gly Tyr Leu Glu
  180                               185                               190

Met Thr Gly Leu Pro Cys Pro Lys Leu Leu Leu Thr Leu Leu Arg Gly
  195                               200                               205

Leu Thr Pro Gly Val Gly His Gly Leu Cys Ala Tyr Arg Arg Gly Cys
  210                               215                               220

Leu Ala Trp Arg Leu Asp Xaa Ala Ser
  225                               230

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&lt;210&gt; 399

&lt;211&gt; 176

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (70)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (71)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (92)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 399

Ile Leu Trp Arg Gln Ala Pro Glu Ala Pro His Cys Ser Gln Asp Ser  
1 5 10 15

Val Ser Ser Ser Pro Arg Leu Gln Glu Asp Leu Ala His Val Thr Gln  
20 25 30

Val Thr Arg His Pro His Phe Arg Ser Leu Pro Ser Ala Trp Cys Ser  
35 40 45

His Ser Ser Leu Leu Pro Val Ser Leu Pro Arg His Ala Leu Ala Thr  
50 55 60

Lys Ser Pro Asn Met Xaa Xaa Ser Ser Pro Ile Leu His Leu Ile Gln  
65 70 75 80

Phe Thr Gly Gln Ile Ser Ser Pro Leu Gly Gly Xaa Val Gln Pro Pro  
85 90 95

Gly Gln Thr Ala Ser Pro Ile Cys Thr Gln Pro Met Ser His Pro Arg  
100 105 110

Arg Gln Ala Ser Gln Gln Cys Glu Gln Gln Leu Trp Thr Gly Gln Thr  
115 120 125

Ser His Leu Gln Ile Pro Cys Pro Ala Leu Asn Lys Glu Leu Pro Val  
130 135 140

Val Asp Thr Gln Asp Lys Glu Leu Gln Met Ser Pro Glu Pro Met Trp  
145 150 155 160

Gly Cys Gly Pro Ser Arg Leu Leu Pro Met Leu Leu Glu Ser Cys Ala  
165 170 175

<210> 400  
<211> 34  
<212> PRT  
<213> Homo sapiens

<400> 400  
Met Leu Gln Gln His Leu Arg His Leu Ala Val Ala Thr Tyr Arg Cys  
1 5 10 15

Arg Arg Arg Ser Pro Cys Lys Ala Pro Thr Val Glu Glu Ala Glu Gly  
20 25 30

Gly Lys

<210> 401  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 401

Val Thr Gln Val Thr Arg His Pro His Phe Arg Ser Leu Pro Ser Ala  
1 5 10 15

Trp Cys Ser His Ser Ser Leu Leu Pro Val Ser Leu Pro  
20 25

<210> 402  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 402  
Gly Gln Thr Ala Ser Pro Ile Cys Thr Gln Pro Met Ser His Pro Arg  
1 5 10 15

Arg Gln Ala Ser Gln Gln Cys Glu Gln Gln Leu Trp  
20 25

<210> 403  
<211> 79  
<212> PRT  
<213> Homo sapiens

<400> 403  
Phe Ile Thr Leu Arg Leu Gly Pro Lys Asn Met Ala Gly Val Leu Trp  
1 5 10 15

Arg His Ser Asn Leu Gln Thr Pro His Tyr Ile Ser Trp Cys Pro Leu  
20 25 30

Leu Asn Tyr Arg Glu Thr Gly Asn Cys Leu Leu His Val Ser Gly Phe  
35 40 45

Leu Asn Ser Arg Leu Leu Ala Asn Cys Ser Gly Glu Ala Ser Gly Lys  
50 55 60

Val Ile Gln Thr Leu Leu Trp Pro Gly Glu Ile Ser Ala Val Ala  
65 70 75

<210> 404  
<211> 82  
<212> PRT  
<213> Homo sapiens

<400> 404  
Lys Ile Arg Thr Phe Leu Phe Ser Gly His Arg Leu Phe Ser Thr Gln  
1 5 10 15

Gly Gln Ser Leu Thr Val Lys Ala His Thr Ala Phe Met Leu Ile Val  
20 25 30

Lys Asn Leu Arg Tyr Phe Ile Ala Phe Lys Phe Leu Met Gly Ile Ser  
35 40 45

Asp Ser Ser Glu Ile Gly Leu Val Met Gln Pro Leu Gln Lys Pro His  
50 55 60

Thr Val Ile Leu Ile Arg Gly Ile Glu Phe Leu Ser Pro Gly Gly Val  
 65 70 75 80

Leu Pro

<210> 405  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 405  
 Met Ala Gly Val Leu Trp Arg His Ser Asn Leu Gln Thr Pro His Tyr  
 1 5 10 15

Ile Ser Trp Cys Pro Leu Leu Asn Tyr Arg  
 20 25

<210> 406  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 406  
 Tyr Phe Ile Ala Phe Lys Phe Leu Met Gly Ile Ser Asp Ser Ser Glu  
 1 5 10 15

Ile Gly Leu Val Met Gln Pro Leu Gln Lys Pro His Thr  
 20 25

<210> 407  
 <211> 8  
 <212> PRT  
 <213> Homo sapiens

<400> 407  
 Pro Phe Gly Leu Leu Val Leu Pro  
 1 5

<210> 408  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 408  
 Gly Phe Ser Arg Asp Thr Ser Val Leu Ser His Phe Ala Phe Asn Ser  
 1 5 10 15

Ala Ser Pro Pro Lys Ser Tyr Ile Arg Gly Lys Leu Gly Leu Glu Glu  
 20 25 30

Tyr Ala Val Phe Tyr Pro Pro Asn Gly Val Ile Pro Phe His Gly Phe  
 35 40 45



Ser Met Tyr Val Ala Pro Leu Cys Phe Leu Tyr His Glu Pro Ser Lys  
50 55 60

Leu Tyr Gln Ile Phe Arg Glu Met Tyr Val Arg Phe Phe Phe Arg Leu  
65 70 75 80

His Ser Ile Ser Ser His Pro Ser Gly Ile Val Ser Leu Cys Leu Leu  
85 90 95

Phe Glu Thr Leu Leu Gln Thr Tyr Leu Pro Gln Leu Phe Tyr His Leu  
100 105 110

Arg Glu Ile Gly Ala Gln Pro Leu Arg Ile Ser Phe Lys Trp Met Val  
115 120 125

Arg Ala Phe Ser Gly Tyr Leu Ala Thr Asp Gln Leu Leu Leu Leu Trp  
130 135 140

Asp Arg Ile Leu Gly Tyr Asn Ser  
145 150

<210> 409

<211> 39

<212> PRT

<213> Homo sapiens

<400> 409

Leu Cys Gln Arg Gly Trp Ala Gly Gln Pro Gly Ile Leu Thr Asp Gly  
1 5 10 15

His Pro Leu Pro Gly Gln Ala Ala Ser Arg Ser His Gln Gly Pro Val  
20 25 30

Gly Pro Gly Phe Ser Ala Asn  
35

<210> 410

<211> 21

<212> PRT

<213> Homo sapiens

<400> 410

Gln Pro Gly Ile Leu Thr Asp Gly His Pro Leu Pro Gly Gln Ala Ala  
1 5 10 15

Ser Arg Ser His Gln  
20

<210> 411

<211> 6

<212> PRT

<213> Homo sapiens

<400> 411

Leu Leu Arg Pro Ile Leu  
1 5

&lt;210&gt; 412

&lt;211&gt; 53

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 412

Ala	Arg	Ala	Asp	Arg	Ala	Arg	Gly	Ala	Ala	Ala	Gly	Arg	Ser	Gly	Arg
1				5						10				15	

Ala	Ala	Ala	Ala	Pro	Trp	Thr	Pro	Val	Ser	Ser	Leu	Ser	Ser	Ser	Leu
			20					25				30			

Thr	Glu	Trp	Pro	Pro	Pro	Lys	Cys	Cys	Gln	Pro	Arg	Lys	Pro	Pro	Ala
		35					40					45			

Leu	Thr	Met	Ser	Ile
		50		

&lt;210&gt; 413

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 413

Ala	Ala	Ala	Gly	Arg	Ser	Gly	Arg	Ala	Ala	Ala	Ala	Pro	Trp	Thr	Pro
1				5					10					15	

Val	Ser	Ser	Leu	Ser
			20	

&lt;210&gt; 414

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 414

Ser	Ser	Ser	Leu	Thr	Glu	Trp	Pro	Pro	Pro	Lys	Cys	Cys	Gln	Pro	Arg
1				5					10					15	

Lys	Pro	Pro	Ala	Leu
			20	

&lt;210&gt; 415

&lt;211&gt; 137

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 415

Glu	Tyr	Phe	Leu	Glu	Phe	Val	Phe	Ser	Leu	Ile	Trp	Ile	Leu	Ser	His
1				5					10					15	

Cys	Ser	Ile	Leu	Ser	Ser	Ala	Val	Cys	Asp	Pro	Gly	Asn	Ile	Arg
		20					25					30		

Val Thr Glu Ala Pro Lys His Pro Ile Ser Glu Glu Leu Glu Thr Pro  
 35 40 45

Ile Lys Asp Ser His Leu Ile Pro Thr Pro Gln Ala Pro Ser Ile Ala  
 50 55 60

Phe Pro Leu Ala Asn Pro Pro Val Ala Pro His Pro Arg Glu Lys Ile  
 65 70 75 80

Ile Thr Ile Glu Glu Thr His Glu Glu Leu Lys Lys Gln Tyr Ile Phe  
 85 90 95

Gln Leu Ser Ser Leu Asn Pro Gln Glu Arg Ile Asp Tyr Cys His Leu  
 100 105 110

Ile Glu Lys Leu Gly Thr Ser Ile Leu Leu Lys Ser Lys Met Ser His  
 115 120 125

Ile Ile Thr Ile Phe Gly Ser Gln Met  
 130 135

&lt;210&gt; 416

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 416

Leu Ile Trp Ile Leu Ser His Cys Ser Ile Leu Leu Ser Ser Ala Val  
 1 5 10 15

Cys Asp Pro Gly Asn  
 20

&lt;210&gt; 417

&lt;211&gt; 21

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 417

Asn Ile Arg Val Thr Glu Ala Pro Lys His Pro Ile Ser Glu Glu Leu  
 1 5 10 15

Glu Thr Pro Ile Lys  
 20

&lt;210&gt; 418

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 418

Lys Asp Ser His Leu Ile Pro Thr Pro Gln Ala Pro Ser Ile Ala Phe  
 1 5 10 15

Pro Leu Ala Asn  
 20

<210> 419  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 419  
 Asn Pro Pro Val Ala Pro His Pro Arg Glu Lys Ile Ile Thr Ile Glu  
 1 5 10 15

Glu Thr His Glu Glu  
 20

<210> 420  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 420  
 Glu Leu Lys Lys Gln Tyr Ile Phe Gln Leu Ser Ser Leu Asn Pro Gln  
 1 5 10 15

Glu Arg Ile Asp Tyr  
 20

<210> 421  
 <211> 6  
 <212> PRT  
 <213> Homo sapiens

<400> 421  
 Ile Asn Ile Cys Ile Tyr  
 1 5

<210> 422  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (6)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 422  
 Leu Gln Glu Ser Ala Xaa Gln Phe Ser Ser Ser  
 1 5 10

<210> 423  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 423

Asn Leu His Gly Cys His Gly Lys Phe Gln Glu His Asn Leu Lys Val  
1 5 10 15

Asn Cys Met Thr Leu Phe Cys Val Ser Leu Thr Thr Thr His Ser Val  
20 25 30

Ser Leu Lys Val Thr Val Tyr Ile Thr Val Ser Ile Leu Cys Met Pro  
35 40 45

Asp Thr Gln Asp Ser Asn Phe Ser Phe Pro Leu Asp Thr Thr Tyr Leu  
50 55 60

Val Ile Asn Phe Gly Ser Thr Tyr Ser Thr Lys  
65 70 75

<210> 424

<211> 30

<212> PRT

<213> Homo sapiens

<400> 424

Leu Phe Cys Val Ser Leu Thr Thr Thr His Ser Val Ser Leu Lys Val  
1 5 10 15

Thr Val Tyr Ile Thr Val Ser Ile Leu Cys Met Pro Asp Thr  
20 25 30

<210> 425

<211> 11

<212> PRT

<213> Homo sapiens

<400> 425

Leu Leu Asn Pro Lys Ala Ser Leu His Ser Ala  
1 5 10

<210> 426

<211> 20

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (18)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 426

Asp Pro Arg Val Arg Ala Ser Val Gly Arg Cys Val Arg Ala Ala Gly  
1 5 10 15

Phe Xaa Leu Ala  
20

<210> 427

<211> 87

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<400> 427
  Pro Tyr Arg Gly Gly Xaa Pro Tyr His Leu Pro Glu Ser Pro Pro Lys
   1          5          10          15

Arg Val Pro Trp Gln Glu His Ala Pro Arg Gln Val Cys Trp Arg Leu
   20          25          30

Cys Pro Ile Arg Xaa Gly Leu Glu Lys Gly Gly Arg His Gln Ser
   35          40          45

Gln Glu Pro Gly Met Xaa Gly Ser Cys Trp Ala Phe Ser Xaa Thr Gly
   50          55          60

Asn Val Glu Gly Gln Trp Phe Leu Lys Gln Gly Pro Xaa Leu Pro Leu
   65          70          75          80

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Arg Xaa Xaa Xaa Leu Gly Leu  
85

<210> 428

<211> 304

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (30)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (37)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (77)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (111)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (120)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (273)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (274)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (277)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (287)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 428

Arg Pro Thr Arg Pro Arg Val Arg Arg Ser Val Arg Pro Gly Arg Arg  
1 5 10 15

Leu Arg Pro Arg His Gly Thr Leu Ala Ala Ala Val Xaa Ala Gly

20										25										30									
Ala	Ala	Pro	Gly	Xaa	Arg	Ser	Arg	Pro	Ala	Pro	Pro	Ser	Arg	Arg	Ala	Ala	Pro	Gly	Xaa	Arg	Ser	Arg	Pro	Ala	Pro	Pro	Ser	Arg	Arg
35										40										45									
Ser	Gly	Pro	Gly	Gly	Gly	Val	Pro	Gly	Ala	Ala	Gly	Ala	Arg	Pro	Leu														
50										55										60									
Arg	Ala	Gly	Asp	Val	Gln	Pro	Arg	Pro	Gly	Ser	Arg	Xaa	Ala	Gly	Asp														
65										70										75									
Ala	Gly	Gly	Arg	Ala	Arg	Ser	Arg	Pro	Pro	Gly	Gly	Arg	Gly	Val	Ala														
85										90										95									
Val	Leu	Pro	Glu	Gly	Asp	Pro	Gly	Gly	Ala	Ser	Leu	Gln	Arg	Xaa	His														
100										105										110									
Gly	Val	Pro	Ala	Pro	Cys	Val	Xaa	Glu	Thr	Leu	Leu	Cys	Ser	Phe	Glu														
115										120										125									
Val	Leu	Asp	Glu	Leu	Gly	Lys	His	Met	Leu	Leu	Arg	Arg	Asp	Cys	Gly														
130										135										140									
Pro	Val	Asp	Thr	Lys	Val	Thr	Asp	Asp	Lys	Asn	Glu	Thr	Leu	Ser	Ser														
145										150										155									
Val	Leu	Pro	Leu	Leu	Asn	Lys	Glu	Pro	Leu	Pro	Gln	Asp	Phe	Ser	Val														
165										170										175									
Lys	Met	Ala	Ser	Ile	Phe	Lys	Glu	Phe	Val	Thr	Thr	Tyr	Asn	Arg	Thr														
180										185										190									
Tyr	Glu	Ser	Lys	Glu	Glu	Thr	Gln	Trp	Arg	Met	Ser	Val	Phe	Ser	Asn														
195										200										205									
Asn	Met	Met	Arg	Ala	Gln	Lys	Ile	Gln	Ala	Leu	Asp	Arg	Gly	Thr	Ala														
210										215										220									
Gln	Tyr	Gly	Val	Thr	Lys	Phe	Ser	Asp	Leu	Thr	Glu	Glu	Glu	Phe	His														
225										230										235									
Thr	Ile	Tyr	Leu	Asn	Pro	Leu	Leu	Arg	Glu	Tyr	His	Gly	Lys	Asn	Met														
245										250										255									
Arg	Leu	Asp	Lys	Ser	Ala	Gly	Asp	Ser	Ala	Pro	Ser	Glu	Trp	Asp	Trp														
260										265										270									
Xaa	Xaa	Lys	Gly	Xaa	Val	Thr	Lys	Val	Lys	Asn	Gln	Ala	Cys	Xaa	Ala														
275										280										285									
Pro	Ala	Gly	Leu	Ser	Gln	Ser	Leu	Val	Thr	Trp	Arg	Ala	Ser	Gly	Ser														
290										295										300									

&lt;210&gt; 429

&lt;211&gt; 85



<212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (8)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (15)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (55)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 429  
 Thr Leu Ala Ala Ala Val Xaa Ala Gly Ala Ala Pro Gly Xaa Arg  
 1 5 10 15  
 Ser Arg Pro Ala Pro Pro Ser Ser Arg Arg Ser Gly Pro Gly Gly Gly  
 20 25 30  
 Val Pro Gly Ala Ala Gly Ala Arg Pro Leu Arg Ala Gly Asp Val Gln  
 35 40 45  
 Pro Arg Pro Gly Ser Arg Xaa Ala Gly Asp Ala Gly Gly Arg Ala Arg  
 50 55 60  
 Ser Arg Pro Pro Gly Gly Arg Gly Val Ala Val Leu Pro Glu Gly Asp  
 65 70 75 80  
 Pro Gly Gly Ala Ser  
 85

<210> 430  
 <211> 119  
 <212> PRT  
 <213> Homo sapiens

<400> 430  
 Ser Phe Glu Val Leu Asp Glu Leu Gly Lys His Met Leu Leu Arg Arg  
 1 5 10 15  
 Asp Cys Gly Pro Val Asp Thr Lys Val Thr Asp Asp Lys Asn Glu Thr  
 20 25 30  
 Leu Ser Ser Val Leu Pro Leu Leu Asn Lys Glu Pro Leu Pro Gln Asp  
 35 40 45  
 Phe Ser Val Lys Met Ala Ser Ile Phe Lys Glu Phe Val Thr Thr Tyr  
 50 55 60  
 Asn Arg Thr Tyr Glu Ser Lys Glu Glu Thr Gln Trp Arg Met Ser Val  
 65 70 75 80

Phe Ser Asn Asn Met Met Arg Ala Gln Lys Ile Gln Ala Leu Asp Arg  
85 90 95

Gly Thr Ala Gln Tyr Gly Val Thr Lys Phe Ser Asp Leu Thr Glu Glu  
100 105 110

Glu Phe His Thr Ile Tyr Leu  
115

<210> 431

<211> 11

<212> PRT

<213> Homo sapiens

<400> 431

Thr Ser His Pro Leu Gly Gly Gly Val Glu Arg  
1 5 10

<210> 432

<211> 9

<212> PRT

<213> Homo sapiens

<400> 432

Ala Cys Cys Cys Leu Glu Trp Ala Gly  
1 5

<210> 433

<211> 43

<212> PRT

<213> Homo sapiens

<400> 433

Ser Ala Glu Gln Lys Thr Arg Leu His Leu Leu Tyr Lys Thr Glu Leu  
1 5 10 15

Tyr Phe Ser Phe Ile Ile Ser Arg Val Ala Val Leu Leu Val Leu Ile  
20 25 30

His Trp Arg Gly Gly Ile Arg Thr Asp Val Ser  
35 40

<210> 434

<211> 23

<212> PRT

<213> Homo sapiens

<400> 434

Thr Leu Gln Asn Ile Tyr Pro Leu Leu Ile Asp Ala Ser Leu Tyr Ile  
1 5 10 15

Cys Val Tyr Ile His Thr Tyr  
20

<210> 435  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 435  
 Asp Val Leu Leu Pro Leu Leu Tyr Leu Leu Val Arg Lys His Ile Asn  
 1 5 10 15  
 Arg Ala Gly Ile Gly Asn Thr Phe Gln Gly Ala Asn Cys Ile  
 20 25 30

<210> 436  
 <211> 99  
 <212> PRT  
 <213> Homo sapiens

<400> 436  
 Met Cys Cys Cys Leu Cys Cys Thr Ser Trp Ser Gly Ser Thr Ser Thr  
 1 5 10 15  
 Glu Arg Val Ser Gly Thr Arg Phe Arg Glu Val Pro Thr Ala Ser Cys  
 20 25 30  
 Ser Ser Ser Ala Pro Ala Pro Ser Glu Leu Gly Ser Ser Leu Ser Val  
 35 40 45  
 Ala Ala Ala Ala Leu Leu Ser Leu Pro Pro Arg Ala Arg Leu Ala Leu  
 50 55 60  
 Pro Arg Leu Pro Arg Leu Pro Ser Gln Glu Asn Leu Arg Asn Pro Lys  
 65 70 75 80  
 Gly Pro Gln Gly Asn Phe Gln Ala Pro Gly Ala Phe Val Leu Ser Ser  
 85 90 95  
 Ser Val Ala

<210> 437  
 <211> 216  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (114)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (155)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 437

Cys Ala Ala Ala Ser Ala Val Pro Pro Gly Pro Glu Ala His Gln Gln  
1 5 10 15

Ser Gly Tyr Arg Glu His Val Ser Gly Arg Cys Gln Leu His His Val  
20 25 30

Arg Pro Leu His Pro Arg Arg Pro Asn Ser Ala Leu Leu Ser Leu Leu  
35 40 45

Leu Leu Leu Leu Phe Ser Ala Ser His Gln Glu Pro Gly Trp His Ser  
50 55 60

Gln Gly Ser Arg Ala Phe Gln Ala Arg Arg Ile Ser Gly Ile Pro Arg  
65 70 75 80

Asp Pro Arg Gly Thr Ser Lys His Leu Glu Leu Leu Ser Phe Leu Val  
85 90 95

Leu Trp His Arg Cys Cys Leu Pro Gly Gly Arg Xaa Phe Cys Glu Ser  
100 105 110

Leu Xaa Gln Gly Arg Ser Ala Cys Leu Leu His Gln Lys Pro Pro Leu  
115 120 125

Leu Met Leu Ser Ala Pro Leu Gly Glu Gln Leu Pro Thr Gln Leu Leu  
130 135 140

Leu Pro Pro Arg Ser Ser Gly Ser Lys Phe Xaa Arg Tyr Gln Arg Pro  
145 150 155 160

Gly Pro Arg Val Gly Val His Leu His Lys Gly Ser Ser Glu Ile Arg  
165 170 175

Glu Ala Gly Gly Pro Gln Leu Trp Pro Gln Cys Pro His Pro Val Asp  
180 185 190

Leu Asp Val Leu Arg Thr Thr Gln His Cys Leu Gln Ser Glu Gly Pro  
195 200 205

Thr Ser Val His Leu Ser Ser Val  
210 215

<210> 438

<211> 147

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (34)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (39)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 438

Glu Val Glu Glu Ala Glu Leu Ala Ala Ala Leu Pro Met Glu Pro Arg  
1 5 10 15

Ala Ser Ile Ala Gly Ala Ser Gly Ala Ala Asp Met His Phe Cys Pro  
20 25 30

Ala Xaa Gly Thr His Arg Xaa Ala Tyr Pro Gln Glu Gly Ser Thr Tyr  
35 40 45

Ala Thr Glu Leu Glu Arg Thr Lys Ala Pro Gly Ala Trp Lys Phe Pro  
50 55 60

Trp Gly Pro Leu Gly Phe Leu Arg Phe Ser Trp Leu Gly Arg Arg Gly  
65 70 75 80

Ser Leu Gly Ser Ala Ser Arg Ala Leu Gly Gly Arg Leu Arg Arg Ala  
85 90 95

Ala Ala Ala Thr Glu Arg Glu Glu Pro Ser Ser Asp Gly Ala Gly Ala  
100 105 110

Glu Asp Glu His Asp Ala Val Gly Thr Ser Leu Lys Arg Val Pro Asp  
115 120 125

Thr Arg Ser Val Asp Val Leu Pro Asp Gln Glu Val Gln Gln Arg Gln  
130 135 140

Gln His Ile  
145

<210> 439

<211> 31

<212> PRT

<213> Homo sapiens

<400> 439

Arg Arg Ile Ser Gly Ile Pro Arg Asp Pro Arg Gly Thr Ser Lys His  
1 5 10 15

Leu Glu Leu Leu Ser Phe Leu Val Leu Trp His Arg Cys Cys Leu  
20 25 30

<210> 440

<211> 29

<212> PRT

<213> Homo sapiens

<400> 440

Arg Thr Lys Ala Pro Gly Ala Trp Lys Phe Pro Trp Gly Pro Leu Gly  
1 5 10 15

Phe Leu Arg Phe Ser Trp Leu Gly Arg Arg Gly Ser Leu  
20 25

<210> 441  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 441  
 Asp Val Leu Leu Pro Leu Leu Tyr Leu Leu Val Arg Lys His Ile Asn  
 1 5 10 15  
 Arg Ala Gly Ile Gly Asn Thr Phe Gln Gly Gly Ala Asn Cys Ile  
 20 25 30

<210> 442  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 442  
 Pro Arg Leu Ala Gln Leu Arg Leu Leu Ser Leu  
 1 5 10

<210> 443  
 <211> 178  
 <212> PRT  
 <213> Homo sapiens

<400> 443  
 Gln Ser Asp Phe Arg Glu Met Asn Gln Thr Asn Ser Thr Ser Asn Ala  
 1 5 10 15  
 Ala Lys Ala Arg Glu Ala Gln Gln Gly Arg Gly Arg Asp Arg Glu Ala  
 20 25 30  
 Ile Phe Ser Ser Ser Ala Leu Glu His Leu Val Cys Tyr Leu Gln Ala  
 35 40 45  
 Tyr Lys His Thr Leu Leu Phe Ile Arg Ser Leu Asn Glu His Gly Leu  
 50 55 60  
 Gln Gln Leu Leu Phe Gln Trp Arg Asp Gly Leu Phe Gly Asn Trp Tyr  
 65 70 75 80  
 Phe Arg Ile Pro Ile Leu Leu Phe Phe Thr Gly Phe His Cys Tyr His  
 85 90 95  
 Leu Ser Cys Pro His Leu Pro Cys Ala Gln Arg Gln Ser Ser Arg Gly  
 100 105 110  
 Thr Val Pro Tyr Val Leu Cys Pro His Pro His His His Leu His His  
 115 120 125  
 Tyr Ser Trp Phe Pro Phe Leu Ile Pro Val Leu His Thr Leu Pro Lys  
 130 135 140  
 Leu Gln Pro Lys Phe His Gly Arg Pro Glu Gln Pro Leu Asn Leu Leu  
 145 150 155 160

Gln Val Lys Pro Thr Ser Gly Thr Ile Ala Ser Ala Glu Gln Val Trp  
 165 170 175

Val Lys

<210> 444  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 444  
 Val Cys Tyr Leu Gln Ala Tyr Lys His Thr Leu Leu Phe Ile Arg Ser  
 1 5 10 15

Leu Asn Glu His Gly Leu Gln Gln Leu Leu Phe Gln Trp  
 20 25

<210> 445  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens

<400> 445  
 Val Pro Tyr Val Leu Cys Pro His Pro His His His Leu His His Tyr  
 1 5 10 15

Ser Trp Phe Pro Phe Leu Ile Pro Val Leu His Thr Leu Pro Lys Leu  
 20 25 30

<210> 446  
 <211> 31  
 <212> PRT  
 <213> Homo sapiens

<400> 446  
 Glu Ser Glu Arg Ala Val Val Tyr Leu Ile Thr Gly Ala Leu Phe Ile  
 1 5 10 15

Val Ser Ser Cys Val Leu Cys Phe Leu Pro Ser Ser Arg Arg Glu  
 20 25 30

<210> 447  
 <211> 146  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (108)  
 <223> Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 447

His Glu Ala Arg Gln Gly Val Ser Arg Gly Val Lys Ala Ala Met Asn  
 1 5 10 15

Arg Val Leu Cys Ala Pro Ala Ala Gly Ala Val Arg Ala Leu Arg Leu  
 20 25 30

Ile Gly Trp Ala Ser Arg Ser Leu His Pro Leu Pro Gly Ser Arg Asp  
 35 40 45

Arg Ala His Pro Ala Ala Glu Glu Asp Asp Pro Asp Arg Pro Ile  
 50 55 60

Glu Phe Ser Ser Ser Lys Ala Asn Pro His Arg Trp Ser Val Gly His  
 65 70 75 80

Thr Met Gly Lys Gly His Gln Arg Pro Trp Trp Lys Val Leu Pro Leu  
 85 90 95

Ser Cys Phe Leu Val Ala Leu Ile Ile Trp Cys Xaa Leu Arg Glu Glu  
 100 105 110

Ser Glu Ala Asp Gln Trp Leu Arg Gln Val Trp Gly Glu Val Pro Glu  
 115 120 125

Pro Ser Asp Arg Ser Glu Glu Pro Glu Thr Pro Ala Ala Tyr Arg Ala  
 130 135 140

Arg Thr  
 145

&lt;210&gt; 448

&lt;211&gt; 249

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (4)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (221)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 448

Met Trp Val Xaa Gly Glu Glu Val Leu Gly Ser His Ala Ala Ser Pro  
 1 5 10 15

Ala Phe Leu His Arg Cys Phe Ser Glu Glu Ser Cys Val Ser Ile Pro  
 20 25 30

Glu Val Glu Gly Tyr Val Val Val Leu Gln Pro Asp Ala Pro Gln Ile  
 35 40 45

Leu Leu Ser Gly Thr Ala His Phe Ala Arg Pro Ala Val Asp Phe Glu



50	55	60
Gly Thr Asn Gly Val Pro Leu Phe Pro Asp Leu Gln Ile Thr Cys Ser 65 70 75 80		
Ile Ser His Gln Val Glu Ala Lys Lys Asp Glu Ser Trp Gln Gly Thr 85 90 95		
Val Thr Asp Thr Arg Met Ser Asp Glu Ile Val His Asn Leu Asp Gly 100 105 110		
Cys Glu Ile Ser Leu Val Gly Asp Asp Leu Asp Pro Glu Arg Glu Ser 115 120 125		
Leu Leu Leu Asp Thr Thr Ser Leu Gln Gln Arg Gly Leu Glu Leu Thr 130 135 140		
Asn Thr Ser Ala Tyr Leu Thr Ile Ala Gly Val Glu Ser Ile Thr Val 145 150 155 160		
Tyr Glu Glu Ile Leu Arg Gln Ala Arg Tyr Arg Leu Arg His Gly Ala 165 170 175		
Ala Leu Tyr Thr Arg Lys Phe Arg Leu Ser Cys Ser Glu Met Asn Gly 180 185 190		
Arg Tyr Ser Ser Asn Glu Phe Ile Val Glu Val Asn Val Leu His Ser 195 200 205		
Met Asn Arg Val Ala His Pro Ser His Val Leu Ser Xaa Gln Gln Phe 210 215 220		
Leu His Arg Gly His Gln Pro Pro Pro Glu Met Ala Gly His Ser Leu 225 230 235 240		
Ala Ser Ser His Arg Asn Ser Ser Thr 245		

<210> 449  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 449  
 Leu Gly Ser His Ala Ala Ser Pro Ala Phe Leu His Arg Cys Phe Ser  
 1 5 10 15  
 Glu Glu Ser Cys Val Ser Ile  
 20

<210> 450  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 450  
 Gly Tyr Val Val Val Leu Gln Pro Asp Ala Pro Gln Ile Leu Leu Ser

1                    5                    10                    15  
 Gly Thr Ala His Phe Ala Arg Pro Ala Val Asp Phe Glu  
                     20                    25

<210> 451  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 451  
 Ile Thr Cys Ser Ile Ser His Gln Val Glu Ala Lys Lys Asp Glu Ser  
          1                    5                    10                    15  
 Trp Gln Gly Thr Val Thr Asp Thr Arg Met  
                     20                    25

<210> 452  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 452  
 Asn Leu Asp Gly Cys Glu Ile Ser Leu Val Gly Asp Asp Leu Asp Pro  
          1                    5                    10                    15  
 Glu Arg Glu Ser Leu Leu Leu Asp Thr Thr Ser Leu Gln  
                     20                    25

<210> 453  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 453  
 Ser Ala Tyr Leu Thr Ile Ala Gly Val Glu Ser Ile Thr Val Tyr Glu  
          1                    5                    10                    15  
 Glu Ile Leu Arg Gln Ala Arg  
                     20

<210> 454  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 454  
 Arg Leu Ser Cys Ser Glu Met Asn Gly Arg Tyr Ser Ser Asn Glu Phe  
          1                    5                    10                    15  
 Ile Val Glu Val Asn Val Leu His Ser Met  
                     20                    25

<210> 455

<211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 455  
 Gln Gln Phe Leu His Arg Gly His Gln Pro Pro Pro Glu Met Ala Gly  
 1 5 10 15  
 His Ser Leu Ala Ser Ser His Arg Asn  
 20 25

<210> 456  
 <211> 299  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (52)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 456  
 Met Ala Asp Ser Glu Thr Phe Ile Ser Leu Glu Glu Cys Arg Gly His  
 1 5 10 15  
 Lys Arg Ala Arg Lys Arg Thr Ser Met Glu Thr Ala Leu Ala Leu Glu  
 20 25 30  
 Lys Leu Phe Pro Lys Gln Cys Gln Val Leu Gly Ile Val Thr Pro Gly  
 35 40 45  
 Ile Val Val Xaa Pro Met Gly Ser Gly Ser Asn Arg Pro Gln Glu Ile  
 50 55 60  
 Glu Ile Gly Glu Ser Gly Phe Ala Leu Leu Phe Pro Gln Ile Glu Gly  
 65 70 75 80  
 Ile Lys Ile Gln Pro Phe His Phe Ile Lys Asp Pro Lys Asn Leu Thr  
 85 90 95  
 Leu Glu Arg His Gln Leu Thr Glu Val Gly Leu Leu Asp Asn Pro Glu  
 100 105 110  
 Leu Arg Val Val Leu Val Phe Gly Tyr Asn Cys Cys Lys Val Gly Ala  
 115 120 125  
 Ser Asn Tyr Leu Gln Gln Val Val Ser Thr Phe Ser Asp Met Asn Ile  
 130 135 140  
 Ile Leu Ala Gly Gly Gln Val Asp Asn Leu Ser Ser Leu Thr Ser Glu  
 145 150 155 160  
 Lys Asn Pro Leu Asp Ile Asp Ala Ser Gly Val Val Gly Leu Ser Phe  
 165 170 175  
 Ser Gly His Arg Ile Gln Ser Ala Thr Val Leu Leu Asn Glu Asp Val  
 180 185 190

Ser Asp Glu Lys Thr Ala Glu Ala Ala Met Gln Arg Leu Lys Ala Ala  
195 200 205

Asn Ile Pro Glu His Asn Thr Ile Gly Phe Met Phe Ala Cys Val Gly  
210 215 220

Arg Gly Phe Gln Tyr Tyr Arg Ala Lys Gly Asn Val Glu Ala Asp Ala  
225 230 235 240

Phe Arg Lys Phe Phe Pro Ser Val Pro Leu Phe Gly Phe Phe Gly Asn  
245 250 255

Gly Glu Ile Gly Cys Asp Arg Ile Val Thr Gly Asn Phe Ile Leu Arg  
260 265 270

Lys Cys Asn Glu Val Lys Asp Asp Asp Leu Phe His Ser Tyr Thr Thr  
275 280 285

Ile Met Ala Leu Ile His Leu Gly Ser Ser Lys  
290 295

<210> 457

<211> 21

<212> PRT

<213> Homo sapiens

<400> 457

His Lys Arg Ala Arg Lys Arg Thr Ser Met Glu Thr Ala Leu Ala Leu  
1 5 10 15

Glu Lys Leu Phe Pro  
20

<210> 458

<211> 24

<212> PRT

<213> Homo sapiens

<400> 458

Met Gly Ser Gly Ser Asn Arg Pro Gln Glu Ile Glu Ile Gly Glu Ser  
1 5 10 15

Gly Phe Ala Leu Leu Phe Pro Gln  
20

<210> 459

<211> 22

<212> PRT

<213> Homo sapiens

<400> 459

Phe His Phe Ile Lys Asp Pro Lys Asn Leu Thr Leu Glu Arg His Gln  
1 5 10 15

Leu Thr Glu Val Gly Leu  
20

<210> 460  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 460  
 Phe Gly Tyr Asn Cys Cys Lys Val Gly Ala Ser Asn Tyr Leu Gln Gln  
 1 5 10 15  
 Val Val Ser Thr Phe Ser Asp  
 20

<210> 461  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 461  
 Thr Ser Glu Lys Asn Pro Leu Asp Ile Asp Ala Ser Gly Val Val Gly  
 1 5 10 15  
 Leu Ser Phe Ser  
 20

<210> 462  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 462  
 Asn Glu Asp Val Ser Asp Glu Lys Thr Ala Glu Ala Ala Met Gln Arg  
 1 5 10 15  
 Leu Lys Ala Ala Asn Ile Pro Glu His Asn  
 20 25

<210> 463  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 463  
 Tyr Tyr Arg Ala Lys Gly Asn Val Glu Ala Asp Ala Phe Arg Lys Phe  
 1 5 10 15  
 Phe Pro Ser Val Pro Leu Phe Gly Phe  
 20 25

<210> 464  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 464

Ile Gly Cys Asp Arg Ile Val Thr Gly Asn Phe Ile Leu Arg Lys Cys  
 1 5 10 15

Asn Glu Val Lys Asp Asp Asp Leu Phe His  
 20 25

&lt;210&gt; 465

&lt;211&gt; 65

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 465

Gly Thr Arg Tyr Phe Leu Met Glu Leu Val Trp Phe Arg Phe Leu His  
 1 5 10 15

Leu Asn Leu Leu Pro Arg Gly Val Cys Gly Ile Cys Val Cys Val  
 20 25 30

Arg Arg Gly Met Val Leu Ser Glu Pro Thr Ser Cys Gly Gln Arg Ala  
 35 40 45

Leu Ser Cys Glu Gly Gly Cys His Ser Gly Arg Val Gln Phe Arg Arg  
 50 55 60

Pro  
 65

&lt;210&gt; 466

&lt;211&gt; 341

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 466

Met Pro Lys Arg Lys Val Thr Phe Gln Gly Val Gly Asp Glu Glu Asp  
 1 5 10 15

Glu Asp Glu Ile Ile Val Pro Lys Lys Lys Leu Val Asp Pro Val Ala  
 20 25 30

Gly Ser Gly Gly Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp  
 35 40 45

Ser Asp Glu Glu Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr Asp  
 50 55 60

Ile Leu Ala Ser Glu Asp Val Glu Gly Gln Glu Ala Ala Thr Leu Pro  
 65 70 75 80

Ser Glu Gly Gly Val Arg Ile Thr Pro Phe Asn Leu Gln Glu Glu Met  
 85 90 95

Glu Glu Gly His Phe Asp Ala Asp Gly Asn Tyr Phe Leu Asn Arg Asp  
 100 105 110

Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile Asp Trp Val Lys Ile  
 115 120 125

Arg Glu Arg Pro Pro Gly Gln Arg Gln Ala Ser Asp Ser Glu Glu Glu  
 130 135 140  
 Asp Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly  
 145 150 155 160  
 Leu Leu Glu Leu Leu Leu Pro Arg Glu Thr Val Ala Gly Ala Leu Arg  
 165 170 175  
 Arg Leu Gly Ala Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln  
 180 185 190  
 Pro Ser Ser Pro Gln Arg Leu Asp Arg Leu Ser Gly Leu Ala Asp Gln  
 195 200 205  
 Met Val Ala Arg Gly Asn Leu Gly Val Tyr Gln Glu Thr Arg Glu Arg  
 210 215 220  
 Leu Ala Met Arg Leu Lys Gly Leu Gly Cys Gln Thr Leu Gly Pro His  
 225 230 235 240  
 Asn Pro Thr Pro Pro Ser Leu Asp Met Phe Ala Glu Glu Leu Ala  
 245 250 255  
 Glu Glu Glu Leu Glu Thr Pro Thr Pro Thr Gln Arg Gly Glu Ala Glu  
 260 265 270  
 Ser Arg Gly Asp Gly Leu Val Asp Val Met Trp Glu Tyr Lys Trp Glu  
 275 280 285  
 Asn Thr Gly Asp Ala Glu Leu Tyr Gly Pro Phe Thr Ser Ala Gln Met  
 290 295 300  
 Gln Thr Trp Val Ser Glu Gly Tyr Phe Pro Asp Gly Val Tyr Cys Arg  
 305 310 315 320  
 Lys Leu Asp Pro Pro Gly Gly Gln Phe Tyr Asn Ser Lys Arg Ile Asp  
 325 330 335  
 Phe Asp Leu Tyr Thr  
 340

&lt;210&gt; 467

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 467

Thr Phe Gln Gly Val Gly Asp Glu Glu Asp Glu Asp Glu Ile Ile Val  
 1 5 10 15

Pro Lys Lys Lys Leu Val Asp Pro  
 20

&lt;210&gt; 468

&lt;211&gt; 27

<212> PRT  
<213> Homo sapiens

<400> 468  
Pro Gly Ser Arg Phe Lys Gly Lys His Ser Leu Asp Ser Asp Glu Glu  
1 5 10 15  
Glu Asp Asp Asp Gly Gly Ser Ser Lys Tyr  
20 25

<210> 469  
<211> 25  
<212> PRT  
<213> Homo sapiens

<400> 469  
Glu Ala Ala Thr Leu Pro Ser Glu Gly Gly Val Arg Ile Thr Pro Phe  
1 5 10 15  
Asn Leu Gln Glu Glu Met Glu Glu Gly  
20 25

<210> 470  
<211> 29  
<212> PRT  
<213> Homo sapiens

<400> 470  
Phe Leu Asn Arg Asp Ala Gln Ile Arg Asp Ser Trp Leu Asp Asn Ile  
1 5 10 15  
Asp Trp Val Lys Ile Arg Glu Arg Pro Pro Gly Gln Arg  
20 25

<210> 471  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 471  
Ser Leu Gly Gln Thr Ser Met Ser Ala Gln Ala Leu Leu Glu Gly Leu  
1 5 10 15  
Leu Glu Leu Leu Leu Pro Arg Glu Thr Val  
20 25

<210> 472  
<211> 28  
<212> PRT  
<213> Homo sapiens

<400> 472  
Arg Gly Gly Gly Lys Gly Arg Lys Gly Pro Gly Gln Pro Ser Ser Pro  
1 5 10 15





Arg Gly Gln Pro Arg Pro Cys Val Ser Gly Val Cys Leu Ser Pro His  
1 5 10 15

Ser Arg Phe Trp Glu Cys Cys Ser Phe Tyr Leu Gln Gly Leu Pro Ala  
20 25 30

Leu Arg Cys Ser Arg Thr Pro Pro Gly Cys His Phe Phe Arg Val Phe  
35 40 45

Pro Ser Cys Pro Phe Ser Ser Ser Arg Ser Pro Ser Cys Phe Thr His  
50 55 60

Ile Cys Pro Val Val Arg Ile Gln Phe Ser Arg Ala Leu Trp Val Ser  
65 70 75 80

Thr Cys Leu Val Leu Ala Ile Thr Pro Gly Lys Trp Leu Leu Pro Glu  
85 90 95

Asp Arg Ala Leu Ser Leu Met Leu Leu Ala Ser Leu Gln Cys Cys Pro  
100 105 110

Pro Pro Phe Gly Ala Trp Trp Met Gln Val Leu Thr His Lys Gly Arg  
115 120 125

Gln Ala Gly Leu Gly Pro Gly Val Ser Ser Arg Pro Leu  
130 135 140

<210> 478

<211> 133

<212> PRT

<213> Homo sapiens

<400> 478

Ser Asn Ile Lys Ser Leu Pro Pro Thr Asn Ser Leu Ser Leu Leu Arg  
1 5 10 15

Ala Gln Thr Gly Thr Asp Cys Ala Val Ser Pro Gly Leu Ala Gly Pro  
20 25 30

Cys His Gln Arg Gly Leu Glu Asp Thr Pro Gly Pro Arg Pro Ala Cys  
35 40 45

Leu Pro Leu Cys Val Ser Thr Cys Ile His Gln Ala Pro Lys Gly Gly  
50 55 60

Gly Gln His Trp Arg Glu Ala Ser Ser Ile Arg Asp Arg Ala Leu Ser  
65 70 75 80

Ser Gly Arg Ser His Phe Pro Gly Val Met Ala Lys Thr Lys His Val  
85 90 95

Asp Thr His Asn Ala Arg Glu Asn Trp Ile Arg Thr Thr Gly Gln Met  
100 105 110

Trp Val Lys His Glu Gly Glu Arg Glu Glu Glu Lys Gly His Glu Gly  
115 120 125

Lys Thr Leu Lys Lys

130

<210> 479  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 479  
 Val Cys Leu Ser Pro His Ser Arg Phe Trp Glu Cys Cys Ser Phe Tyr  
           1                  5                  10                  15

Leu Gln Gly Leu Pro Ala Leu Arg Cys  
                   20                  25

<210> 480  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 480  
 Gln Phe Ser Arg Ala Leu Trp Val Ser Thr Cys Leu Val Leu Ala Ile  
           1                  5                  10                  15

Thr Pro Gly Lys Trp Leu Leu Pro Glu Asp Arg  
                   20                  25

<210> 481  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 481  
 Ser Leu Ser Leu Leu Arg Ala Gln Thr Gly Thr Asp Cys Ala Val Ser  
           1                  5                  10                  15

Pro Gly Leu Ala Gly Pro Cys His Gln Arg Gly  
                   20                  25

<210> 482  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 482  
 Ser Gly Arg Ser His Phe Pro Gly Val Met Ala Lys Thr Lys His Val  
           1                  5                  10                  15

Asp Thr His Asn Ala Arg Glu Asn Trp Ile Arg Thr  
                   20                  25

<210> 483  
 <211> 91  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 483

Ala Arg Gly Trp Glu Cys Glu Glu Gly Ser Pro Gly Pro Val Phe Arg  
 1 5 10 15

Gly Cys Ala Ser Pro Arg Thr Pro Val Ser Gly Asn Ala Val Pro Ser  
 20 25 30

Thr Phe Arg Ala Cys Pro Pro Cys Gly Val Ala Ala Leu Leu Pro Gly  
 35 40 45

Val Ile Ser Ser Glu Ser Phe Leu His Ala Leu Phe Pro Pro His Val  
 50 55 60

Pro Pro Arg Ala Leu Pro Thr Ser Val Pro Trp Phe Gly Ser Ser Ser  
 65 70 75 80

Pro Val Arg Tyr Gly Tyr Pro Arg Val Trp Ser  
 85 90

&lt;210&gt; 484

&lt;211&gt; 20

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 484

Ala Arg Val Glu Val Gln Gly Gln Gly Pro Gly Ala Lys Val Asp Ala  
 1 5 10 15

Gly Glu Gly Gln  
 20

&lt;210&gt; 485

&lt;211&gt; 121

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (46)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (66)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (98)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (121)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 485

Trp Val Val Leu Ser Gln Leu Gln Ala Gln Gly Val Ala Gly Met Met  
 1 5 10 15

Cys Ser Tyr Pro Glu Gly Gln Lys Lys Gly Lys Glu Ala Thr Arg Ser  
 20 25 30

His Arg Trp Val Pro Arg Ser Leu Pro Gly Met Gly Ser Xaa Leu Ala  
 35 40 45

Ala Pro His Ser Asn Pro Trp Leu Ala Pro Leu Ala Leu Leu Glu Ile  
 50 55 60

Pro Xaa Pro Val Leu Cys Glu Trp Lys Arg Lys Leu Ile Ala Leu Glu  
 65 70 75 80

Glu Val Ser Glu Cys Arg Pro Gly Val Gly Gly Gly Gly Gly Phe Leu  
 85 90 95

Ser Xaa Cys Arg Arg Gly His Leu Ser Phe Leu Ser Gly Ala Pro Tyr  
 100 105 110

Pro Leu Phe Pro Ile Ser Pro Leu Xaa  
 115 120

&lt;210&gt; 486

&lt;211&gt; 206

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (105)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (127)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (131)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (180)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 486

Glu Leu Arg His Gly Gly Pro Arg Gln Val Lys Asp Ser Phe Leu Asp  
 1 5 10 15

Tyr Met Gly Tyr Pro Asp Glu Asp Arg Ala Gly Pro Pro Ser Arg Trp  
 20 25 30

Phe Pro Arg Glu Arg Phe Leu Ser Pro Pro Thr Val Val Pro Leu Cys

35                      40                      45  
 Val Glu Leu Arg Leu Gly Phe Glu Ser Gly Met Gly Trp Gly Val Pro  
   50                      55                      60  
 Gly Ser Ser His Ser Glu Gly Gly Pro Glu Ala Arg Trp Pro Leu Ile  
   65                      70                      75                      80  
 Ala Pro Met Tyr Thr Val Thr Gln Trp Phe Gln Arg Pro Asn Ser Gly  
                     85                      90                      95  
 Arg Gly Pro Gln Pro Pro Pro Gln Xaa Arg Gly Glu Ile Gly Lys Arg  
                     100                      105                      110  
 Gly Tyr Gly Ala Pro Glu Arg Lys Leu Arg Trp Pro Leu Leu Xaa Trp  
                     115                      120                      125  
 Glu Arg Xaa Pro Pro Pro Pro Pro Thr Pro Gly Arg His Ser Glu Thr  
                     130                      135                      140  
 Ser Ser Ser Ala Ile Ser Phe Leu Phe His Ser Gln Arg Thr Gly Trp  
   145                      150                      155                      160  
 Gly Ile Ser Ser Ser Ala Asn Gly Ala Ser Gln Gly Leu Leu Trp Gly  
                     165                      170                      175  
 Ala Ala Arg Xaa Leu Pro Ile Pro Gly Arg Asp Leu Gly Thr His Leu  
                     180                      185                      190  
 Trp Asp Leu Val Ala Ser Phe Pro Phe Phe Cys Pro Ser Gly  
                     195                      200                      205  
  
 <210> 487  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 487  
 Pro Glu Gly Gln Lys Lys Gly Lys Glu Ala Thr Arg Ser His Arg Trp  
   1                      5                      10                      15  
 Val Pro Arg Ser Leu Pro Gly Met  
                     20  
  
 <210> 488  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 488  
 Leu Arg Leu Gly Phe Glu Ser Gly Met Gly Trp Gly Val Pro Gly Ser  
   1                      5                      10                      15  
 Ser His Ser Glu Gly Gly Pro Glu Ala Arg  
                     20                      25

<210> 489  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 489  
 His Ser Gln Arg Thr Gly Trp Gly Ile Ser Ser Ala Asn Gly Ala  
 1 5 10 15  
 Ser Gln Gly Leu Leu Trp Gly Ala  
 20

<210> 490  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 490  
 Asp Ser Leu Thr Ile Lys Ser Gly Ser Gln Pro Gln Tyr Ser Pro Ala  
 1 5 10 15  
 Ile Thr Leu Trp  
 20

<210> 491  
 <211> 54  
 <212> PRT  
 <213> Homo sapiens

<400> 491  
 Phe Ile Met Lys Leu Leu Tyr Gln Leu Leu Met Leu Thr Thr Ser Ser  
 1 5 10 15  
 Ser Tyr Ser Leu Ile Thr His Leu Cys Tyr Ser Ile Phe Leu Cys Ser  
 20 25 30  
 Phe Tyr Phe His Phe Pro Cys Asn Val Ser Leu Phe Val Leu Ile Ser  
 35 40 45  
 Glu Glu Phe Ile Tyr Asp  
 50

<210> 492  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 492  
 Leu Met Leu Thr Thr Ser Ser Ser Tyr Ser Leu Ile Thr His Leu Cys  
 1 5 10 15  
 Tyr Ser Ile Phe Leu  
 20

<210> 493

<211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 493  
 Leu Cys Ser Phe Tyr Phe His Phe Pro Cys Asn Val Ser Leu Phe Val  
 1 5 10 15  
 Leu Ile Ser Glu Glu  
 20

<210> 494  
 <211> 53  
 <212> PRT  
 <213> Homo sapiens

<400> 494  
 Met Arg Lys Asn Ile Phe Ala Ile Leu Asp Lys Met Leu Thr Cys Leu  
 1 5 10 15  
 Ile Ile Asn Glu Leu Phe Arg Asn Gln Tyr Lys Glu Thr Asn Ile Thr  
 20 25 30  
 Arg Glu Val Lys Ile Lys Gly Thr Glu Glu Asn Gly Ile Ala Gln Met  
 35 40 45  
 Ser Tyr Lys Ala Ile  
 50

<210> 495  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 495  
 Asp Lys Met Leu Thr Cys Leu Ile Ile Asn Glu Leu Phe Arg Asn Gln  
 1 5 10 15  
 Tyr Lys Glu Thr Asn  
 20

<210> 496  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 496  
 Asn Ile Thr Arg Glu Val Lys Ile Lys Gly Thr Glu Glu Asn Gly Ile  
 1 5 10 15  
 Ala Gln Met Ser Tyr  
 20

<210> 497  
 <211> 7



<400> 497  
Gly Ile Ser Glu Arg Lys Pro  
1 5

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<400> 498
Gln Ser Pro Ala Val Ser Tyr Thr Val Thr Ser Gln Val Pro Trp Gly
 1             5             10             15
Leu Gly Leu Leu Ala Gly Glu Lys Arg
 20             25

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>400> 499
Leu Pro Ser His Pro Leu Arg Pro Leu Thr Phe Ser Ser Ala Met Cys
  1          5          10          15
Met His Leu Pro Pro Pro Leu Cys Arg Arg Ala Ala Leu Ser Ala Pro
      20          25          30
Phe Ala Thr Gln His Arg Pro Trp Ser Val Ala Ala Cys Leu Pro
      35          40          45
Arg Ile His Gln Asn Pro Leu Asp Ala Glu Tyr Pro Ser Gly Cys Cys
      50          55          60
Arg Met Ser Phe Leu Pro Ala Ala Cys Ser Asn Ile Tyr Ser Gln Glu
      65          70          75          80
Cys His Tyr Thr Leu Met Ser His Ser Glu Ala Ser Thr Leu Gln Xaa
      85          90          95
Ala Gln Leu Leu
      100

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<210> 500
<211> 76
<212> PRT
<213> Homo sapiens
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&lt;400&gt; 500

Met Leu Leu Gln Ala Ala Gly Arg Lys Leu Met Arg Gln Gln Pro Asp  
 1 5 10 15

Gly Tyr Ser Ala Ser Arg Gly Phe Trp Trp Met Arg Gly Arg Gln Ala  
 20 25 30

Ala Ala Thr Leu His Gly Arg Cys Trp Val Ala Lys Gly Ala Asp Ser  
 35 40 45

Ala Ala Leu Arg Gln Arg Gly Gly Gly Arg Cys Met His Ile Ala Asp  
 50 55 60

Glu Lys Val Arg Gly Leu Ser Gly Cys Asp Gly Ser  
 65 70 75

&lt;210&gt; 501

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 501

Leu Cys Arg Arg Ala Ala Leu Ser Ala Pro Phe Ala Thr Gln His Arg  
 1 5 10 15

Pro Trp Ser Val Ala Ala Ala Cys Leu  
 20 25

&lt;210&gt; 502

&lt;211&gt; 24

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 502

Arg Gly Phe Trp Trp Met Arg Gly Arg Gln Ala Ala Ala Thr Leu His  
 1 5 10 15

Gly Arg Cys Trp Val Ala Lys Gly  
 20

&lt;210&gt; 503

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 503

Gln Arg Gly Gly Gly Arg Cys Met His Ile Ala Asp Glu Lys Val Arg  
 1 5 10 15

Gly Leu Ser Gly Cys Asp Gly  
 20

&lt;210&gt; 504

&lt;211&gt; 106

&lt;212&gt; PRT

<213> Homo sapiens

<400> 504

Thr His Pro Ser His Pro Ser Ile Val Ile Gln Ser Thr Val Ser Leu  
1 5 10 15

Cys Leu Thr Ala Ser Ser Arg Arg Lys Lys Ser Asp Cys Leu Ser Leu  
20 25 30

Cys Gln Val Ser Cys Ser Gln Arg Pro Gly Ser His Lys Thr Asn Val  
35 40 45

Ala Trp Gly Phe Leu Met Ser Arg Val His Phe Ser Val Arg Trp Val  
50 55 60

Ser Gly Gly Arg Gly Ile Thr Gly Ala Ile Cys Lys Glu Ser Ser Leu  
65 70 75 80

Pro Cys Lys Glu Ile Gln Gly Lys Ala Cys Tyr Phe Cys His His Pro  
85 90 95

Ala Gln Gln Ser Thr Pro Phe Ser His Ile  
100 105

<210> 505

<211> 27

<212> PRT

<213> Homo sapiens

<400> 505

Val Ile Gln Ser Thr Val Ser Leu Cys Leu Thr Ala Ser Ser Arg Arg  
1 5 10 15

Lys Lys Ser Asp Cys Leu Ser Leu Cys Gln Val  
20 25

<210> 506

<211> 26

<212> PRT

<213> Homo sapiens

<400> 506

Ile Cys Lys Glu Ser Ser Leu Pro Cys Lys Glu Ile Gln Gly Lys Ala  
1 5 10 15

Cys Tyr Phe Cys His His Pro Ala Gln Gln  
20 25

<210> 507

<211> 11

<212> PRT

<213> Homo sapiens

<400> 507

Pro Thr Arg Pro Pro Thr Arg Pro Ala Gly Lys  
1 5 10

<210> 508  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 508  
 Ser Ile Thr Lys Tyr Cys Gln Gly Cys Arg Lys Ile Gly Ala Leu Leu  
 1 5 10 15  
 Pro Trp Trp Glu Cys Asn Met Val Pro Asp Thr Thr Ser Ile Leu Lys  
 20 25 30  
 Leu Ile Cys  
 35

<210> 509  
 <211> 188  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (149)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 509  
 Ser Leu Gln Val Leu Arg Thr Leu Gly Ser Lys Cys Gly Asp Phe Leu  
 1 5 10 15  
 Arg Ser Arg Phe Cys Lys Asp Val Leu Pro Lys Leu Ala Gly Ser Leu  
 20 25 30  
 Val Thr Gln Ala Pro Ile Ser Ala Arg Ala Gly Pro Val Tyr Ser His  
 35 40 45  
 Thr Leu Ala Phe Lys Leu Gln Leu Ala Val Leu Gln Gly Leu Gly Pro  
 50 55 60  
 Leu Cys Glu Arg Leu Asp Leu Gly Glu Gly Asp Leu Asn Lys Val Ala  
 65 70 75 80  
 Asp Ala Cys Leu Ile Tyr Leu Ser Val Lys Gln Pro Val Lys Leu Gln  
 85 90 95  
 Glu Ala Ala Arg Ser Val Phe Leu His Leu Met Lys Val Asp Pro Asp  
 100 105 110  
 Ser Thr Trp Phe Leu Leu Asn Glu Leu Tyr Cys Pro Val Gln Phe Thr  
 115 120 125  
 Pro Pro His Pro Ser Leu His Pro Val Gln Leu Xaa Gly Ala Ser Gly

130 135 140  
 Gln Gln Asn Pro Xaa His Asp Gln Arg Ala Pro Ala Ala Gln Gly Ala  
 145 150 155 160  
 Ala Val Thr Leu Leu Pro His His Arg Gly His Arg Ser Leu Pro Tyr  
 165 170 175  
 Cys Gln Pro Glu Ala Gly Leu Thr Pro Pro Arg Pro  
 180 185

<210> 510  
 <211> 138  
 <212> PRT  
 <213> Homo sapiens

<400> 510  
 Gly Ala Asp Gly Asn Val Ser Asp Phe Asp Asn Glu Glu Glu Glu Gln  
 1 5 10 15  
 Ser Val Pro Pro Lys Val Asp Glu Asn Asp Thr Arg Pro Asp Val Glu  
 20 25 30  
 Pro Pro Leu Pro Leu Gln Ile Gln Ile Ala Met Asp Val Met Glu Arg  
 35 40 45  
 Cys Ile His Leu Leu Ser Asp Lys Asn Leu Gln Ile Arg Leu Lys Val  
 50 55 60  
 Leu Asp Val Leu Asp Leu Cys Val Val Val Leu Gln Ser His Lys Asn  
 65 70 75 80  
 Gln Leu Leu Pro Leu Ala His Gln Ala Trp Pro Ser Leu Val His Arg  
 85 90 95  
 Leu Thr Arg Asp Ala Pro Leu Ala Val Leu Arg Ala Phe Lys Phe Tyr  
 100 105 110  
 Val Pro Trp Glu Ala Ser Val Val Thr Phe Phe Ala Ala Gly Ser Ala  
 115 120 125  
 Lys Met Ser Cys Gln Ser Trp Leu Ala Pro  
 130 135

<210> 511  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 511  
 Thr Leu Gly Ser Lys Cys Gly Asp Phe Leu Arg Ser Arg Phe Cys Lys  
 1 5 10 15  
 Asp Val Leu Pro Lys Leu Ala Gly Ser Leu  
 20 25

<210> 512  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 512  
 Pro Val Tyr Ser His Thr Leu Ala Phe Lys Leu Gln Leu Ala Val Leu  
 1 5 10 15  
 Gln Gly Leu Gly Pro Leu Cys Glu Arg Leu Asp Leu Gly  
 20 25

<210> 513  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 513  
 Ser Val Pro Pro Lys Val Asp Glu Asn Asp Thr Arg Pro Asp Val Glu  
 1 5 10 15  
 Pro Pro Leu Pro Leu Gln Ile Gln Ile Ala Met  
 20 25

<210> 514  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 514  
 Trp Pro Ser Leu Val His Arg Leu Thr Arg Asp Ala Pro Leu Ala Val  
 1 5 10 15  
 Leu Arg Ala Phe Lys Phe Tyr Val Pro Trp  
 20 25

<210> 515  
 <211> 58  
 <212> PRT  
 <213> Homo sapiens

<400> 515  
 Ser Leu Gly Ile Ser Thr Phe Gly Ile Met Val Phe Ser Val Tyr Phe  
 1 5 10 15  
 Gly Gly Ile Met Ile Ser Ile Pro Tyr Ser Gly Ile Ser Phe Gly Asn  
 20 25 30  
 Lys Lys Glu Leu Asn Ile Asp Ser Cys Tyr Asn Met Val Asn Leu Lys  
 35 40 45  
 Asn Ile Met Phe Ser Glu Arg Ser Gln Thr  
 50 55

<210> 516

<211> 15  
 <212> PRT  
 <213> Homo sapiens

<400> 516  
 His Ala Ser Gly Asn Asn Asp Pro Leu Trp Phe Leu Thr Tyr Leu  
 1 5 10 15

<210> 517  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 517  
 Met Val Phe Ser Val Tyr Phe Gly Gly Ile Met Ile Ser Ile Pro Tyr  
 1 5 10 15

Ser Gly Ile Ser Phe  
 20

<210> 518  
 <211> 20  
 <212> PRT  
 <213> Homo sapiens

<400> 518  
 Phe Gly Asn Lys Lys Glu Leu Asn Ile Asp Ser Cys Tyr Asn Met Val  
 1 5 10 15

Asn Leu Lys Asn  
 20

<210> 519  
 <211> 143  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (139)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (140)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 519  
 Met His Gln Gln Lys Arg Gln Pro Glu Leu Val Glu Gly Asn Leu Pro  
 1 5 10 15

Val Phe Val Phe Pro Thr Glu Leu Ile Phe Tyr Ala Asp Asp Gln Ser  
 20 25 30

Thr His Lys Gln Val Leu Thr Leu Tyr Asn Pro Tyr Glu Phe Ala Leu  
 35 40 45

Lys Phe Lys Val Leu Cys Thr Thr Pro Asn Lys Tyr Val Val Val Asp  
 50 55 60  
 Ala Ala Gly Ala Val Lys Pro Gln Cys Cys Val Asp Ile Val Ile Arg  
 65 70 75 80  
 His Arg Asp Val Arg Ser Cys His Tyr Gly Val Ile Asp Lys Phe Arg  
 85 90 95  
 Leu Gln Val Ser Glu Gln Ser Gln Arg Lys Ala Leu Gly Lys Lys Arg  
 100 105 110  
 Gly Cys Cys Tyr Ser Ser Pro Ile Ser Lys Arg Thr Thr Lys Gly Arg  
 115 120 125  
 Arg Gly Lys Lys Ile Lys Gly Thr Phe Asn Xaa Xaa Phe Ile Phe  
 130 135 140

<210> 520  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (48)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (49)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (50)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (72)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<220>  
 <221> SITE  
 <222> (74)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 520  
 Met Asn Ser Phe Ser Val Ile Ala Ser Ile Val Val Leu Leu Pro Phe  
 1 5 10 15

Pro Gly Leu Ser Val Ser Ala Cys Leu Pro Ser His Ser His Gln Cys  
 20 25 30

Lys Thr Phe Ile Leu Leu Phe Leu Pro Ser Ser Glu Lys Thr Leu Xaa  
 35 40 45



Xaa Xaa Pro Pro Ser His Ser Ser Thr Leu Gly Gly Gln Gly Gly Gln  
 50 55 60

Ile Met Arg Ser Gly Asp Arg Xaa His Xaa Gly  
 65 70 75

<210> 521

<211> 81

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (5)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (6)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (60)

<223> Xaa equals any of the naturally occurring L-amino acids

<220>

<221> SITE

<222> (74)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 521

Val Val Phe Phe Xaa Xaa Phe Phe Glu Met Glu Ser His Ser Val Ala  
 1 5 10 15

Gln Ala Gly Val Gln Trp Arg Asn Leu Gly Ser Leu Gln Ala Leu Pro  
 20 25 30

Pro Gly Phe Met Pro Phe Ser Cys Leu Ser Leu Pro Gly Ser Trp Asp  
 35 40 45

Tyr Arg Arg Pro Pro Pro Ser Pro Ala Asn Leu Xaa Cys Ile Phe Ser  
 50 55 60

Arg Asp Gly Gly His His Val Ser Gln Xaa Gly Leu Asp Leu Leu Thr  
 65 70 75 80

Ser

<210> 522

<211> 28

<212> PRT

<213> Homo sapiens

<400> 522

Ile Val Val Leu Leu Pro Phe Pro Gly Leu Ser Val Ser Ala Cys Leu  
1 5 10 15

Pro Ser His Ser His Gln Cys Lys Thr Phe Ile Leu  
20 25

<210> 523  
<211> 26  
<212> PRT  
<213> Homo sapiens

<400> 523  
Pro Gly Phe Met Pro Phe Ser Cys Leu Ser Leu Pro Gly Ser Trp Asp  
1 5 10 15

Tyr Arg Arg Pro Pro Pro Ser Pro Ala Asn  
20 25

<210> 524  
<211> 16  
<212> PRT  
<213> Homo sapiens

<400> 524  
Tyr Arg Phe Lys Asn Pro Lys Cys Arg Leu Phe Ser Val Pro Cys Arg  
1 5 10 15

<210> 525  
<211> 128  
<212> PRT  
<213> Homo sapiens

<400> 525  
Thr Gln Asn Arg Glu Leu Leu Ala Trp Lys Pro Lys Gly Thr Asp Asp  
1 5 10 15

Ile Cys Thr Ser His Asn Thr Thr His Ile Gln Lys Met Pro Gly Glu  
20 25 30

Ala Asn Ser Cys Cys Pro Arg Gly Ala Lys Ser Tyr His Ile Asp Cys  
35 40 45

Trp Pro Pro Ala Leu Phe Pro Arg Cys Val Ala Tyr Leu Phe Leu Asn  
50 55 60

Lys Pro Ala Thr Leu Arg Lys Lys Tyr Tyr Cys Lys Pro Tyr His Thr  
65 70 75 80

Gln Leu His Pro Ala Trp His Arg Glu Lys Ser Ala Phe Trp Ile Phe  
85 90 95

Glu Thr Val Ser Gln Ser Lys Gln Ser Leu Thr Ser Leu Val Tyr Ser  
100 105 110

Val Asn Glu Leu Leu Val Leu Ser Asn Leu Ala Gln Trp Ala Leu Gly  
 115 120 125

<210> 526  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 526  
 Ala Trp Lys Pro Lys Gly Thr Asp Asp Ile Cys Thr Ser His Asn Thr  
 1 5 10 15

Thr His Ile Gln Lys Met Pro  
 20

<210> 527  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 527  
 Cys Pro Arg Gly Ala Lys Ser Tyr His Ile Asp Cys Trp Pro Pro Ala  
 1 5 10 15

Leu Phe Pro Arg Cys Val Ala Tyr Leu  
 20 25

<210> 528  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 528  
 Ser Tyr His Ile Asp Cys Trp Pro Pro Ala Leu Phe Pro Arg Cys Val  
 1 5 10 15

Ala Tyr Leu Phe Leu Asn Lys Pro Ala Thr  
 20 25

<210> 529  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 529  
 Arg Lys Lys Tyr Tyr Cys Lys Pro Tyr His Thr Gln Leu His Pro Ala  
 1 5 10 15

Trp His Arg Glu Lys Ser Ala Phe Trp Ile Phe Glu Thr  
 20 25

<210> 530  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 530  
 Ile Cys Leu Asp Ser Cys Ser Gln Val Ser Val Thr Ser Leu Trp Ser  
 1 5 10 15  
 Phe Leu Arg Val His Ser Leu Val Gln Thr Leu Trp  
 20 25

<210> 531  
 <211> 75  
 <212> PRT  
 <213> Homo sapiens

<400> 531  
 His Tyr Cys Cys Asp Phe Gly Thr Ser Leu Leu Gly Phe Tyr Val Pro  
 1 5 10 15  
 Phe His Tyr Tyr Val His Met Val Asn Ile Ile Leu Thr Thr Ile Asp  
 20 25 30  
 Phe Tyr His Tyr Lys Phe Cys Cys Ser Gln Asn Ala Asn Lys His Cys  
 35 40 45  
 Phe Lys His Phe Gln Ile Met Thr Thr Val Pro Tyr Leu Asn Ile Asn  
 50 55 60  
 Lys Glu Asn Leu Arg Phe Lys Asn Ile Phe Lys  
 65 70 75

<210> 532  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens

<400> 532  
 Thr Ser Leu Leu Gly Phe Tyr Val Pro Phe His Tyr Tyr Val His Met  
 1 5 10 15  
 Val Asn Ile Ile Leu Thr Thr Ile Asp Phe Tyr  
 20 25

<210> 533  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 533  
 Phe Gln Ile Met Thr Thr Val Pro Tyr Leu Asn Ile Asn Lys Glu Asn  
 1 5 10 15  
 Leu Arg Phe Lys Asn Ile

20

&lt;210&gt; 534

&lt;211&gt; 106

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 534

Ile Ser Glu Ser Met Ser Leu Val Arg Ser Leu Gln Phe Tyr Arg Gly  
 1 5 10 15

Lys Asn Arg Ala Glu Arg Thr Val Ile Ser Ser Ser Ser His Ser Cys  
 20 25 30

His Leu Ile Asp Leu Glu Phe Gln Pro Arg Ser Asp Gly Glu Val Ser  
 35 40 45

Ile Ser Phe Leu Glu Lys Gly Val Glu Leu Arg Trp Gly Met Gly Leu  
 50 55 60

Glu Asp Leu Ile Gly Leu Gly Leu Gly Val Ser Thr Arg Arg Ser Thr  
 65 70 75 80

Val Arg Arg Lys Glu Pro Thr Lys Ala Gly Met His Thr Ala Cys Ser  
 85 90 95

Glu Glu Met Glu Pro Glu Asn Arg Glu Asn  
 100 105

&lt;210&gt; 535

&lt;211&gt; 143

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 535

Asp Gly Ser Arg Ser Val Ala Gln Ala Arg Val Gln Trp His His Arg  
 1 5 10 15

Gly Ser Leu Pro Pro Leu Pro Pro Arg Phe Lys Gln Phe Pro Leu Arg  
 20 25 30

His Leu Arg Val Gly Gly Ile Thr Gly Ala Cys Arg His Thr Gln Ile  
 35 40 45

Ile Phe Val Val Leu Val Gln Met Gly Phe His His Val Gly Gln Ala  
 50 55 60

Gly Leu Glu Leu Leu Thr Ser Gly Asp Pro Pro Ala His Ser Gln  
 65 70 75 80

Ser Ala Gly Ile Thr Gly Val Ser His Ser Thr Arg Pro Lys Leu Leu  
 85 90 95

Ser Trp Leu Pro Ser Asp Asn Leu Leu Gly Met Ala Leu Tyr Ser Ile  
 100 105 110

Gln Trp Ala Leu Leu Ala Asn Ser Leu Tyr Phe Gln Val Pro Ser Pro

115                      120                      125  
 Leu Ser Met Leu Cys Ala Phe Leu Pro Leu Trp Val Pro Ser Ala  
 130                      135                      140  
  
 <210> 536  
 <211> 27  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 536  
 Arg Gly Lys Asn Arg Ala Glu Arg Thr Val Ile Ser Ser Ser Ser His  
 1                      5                      10                      15  
  
 Ser Cys His Leu Ile Asp Leu Glu Phe Gln Pro  
                     20                      25  
  
 <210> 537  
 <211> 32  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 537  
 Leu Gly Leu Gly Val Ser Thr Arg Arg Ser Thr Val Arg Arg Lys Glu  
 1                      5                      10                      15  
  
 Pro Thr Lys Ala Gly Met His Thr Ala Cys Ser Glu Glu Met Glu Pro  
                     20                      25                      30  
  
  
 <210> 538  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 538  
 Gly Asp Pro Pro Ala Leu Ala Ser Gln Ser Ala Gly Ile Thr Gly Val  
 1                      5                      10                      15  
  
 Ser His Ser Thr Arg Pro Lys Leu  
                     20  
  
 <210> 539  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens  
  
 <400> 539  
 Ala Leu Tyr Ser Ile Gln Trp Ala Leu Leu Ala Asn Ser Leu Tyr Phe  
 1                      5                      10                      15  
  
 Gln Val Pro Ser Pro Leu Ser Met Leu  
                     20                      25

<210> 540  
 <211> 35  
 <212> PRT  
 <213> Homo sapiens

<400> 540  
 Asp Arg Ile Leu Leu Phe Tyr Ser Arg Asp Gly Gln Thr Thr Ser Lys  
 1 5 10 15

Gly Pro Asn Pro Ala Cys Cys Leu Phe Leu Leu Lys Lys Phe Tyr Trp  
 20 25 30

Asn Thr Ala  
 35

<210> 541  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 541  
 Asp Gly Gln Thr Thr Ser Lys Gly Pro Asn Pro Ala Cys Cys Leu Phe  
 1 5 10 15

Leu Leu Lys Lys Phe  
 20

<210> 542  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 542  
 Asp Pro Arg Val Arg Arg Thr Leu Asp Leu Gly Ile Thr Leu Tyr Leu  
 1 5 10 15

Phe Leu Tyr Ile Phe Leu Ser Leu  
 20

<210> 543  
 <211> 244  
 <212> PRT  
 <213> Homo sapiens

<400> 543  
 Pro Ala Leu Gly Glu Cys Cys Leu Asp Ala Phe Leu Phe Leu Leu Gly  
 1 5 10 15

Lys Gln Leu Lys Lys Ser Gly Glu Lys Pro Leu Leu Gly Gly Ser Leu  
 20 25 30

Met Glu Tyr Ala Ile Leu Ser Ala Ile Ala Ala Met Asn Glu Pro Lys  
 35 40 45

Thr Cys Ser Thr Thr Ala Leu Lys Lys Tyr Val Leu Glu Asn His Pro  
 50 55 60  
 Gly Thr Asn Ser Asn Tyr Gln Met His Leu Leu Lys Lys Thr Leu Gln  
 65 70 75 80  
 Lys Cys Glu Lys Asn Gly Trp Met Glu Gln Ile Ser Gly Lys Gly Phe  
 85 90 95  
 Ser Gly Thr Phe Gln Leu Cys Phe Pro Tyr Tyr Pro Ser Pro Gly Val  
 100 105 110  
 Leu Phe Pro Lys Lys Glu Pro Asp Asp Ser Arg Asp Glu Asp Glu Asp  
 115 120 125  
 Glu Asp Glu Ser Ser Glu Glu Asp Ser Glu Asp Glu Glu Pro Pro Pro  
 130 135 140  
 Lys Arg Arg Leu Gln Lys Lys Thr Pro Ala Lys Ser Pro Gly Lys Ala  
 145 150 155 160  
 Ala Ser Val Lys Gln Arg Gly Ser Lys Pro Ala Pro Lys Val Ser Ala  
 165 170 175  
 Ala Gln Arg Gly Lys Ala Arg Pro Leu Pro Lys Lys Ala Pro Pro Lys  
 180 185 190  
 Ala Lys Thr Pro Ala Lys Lys Thr Arg Pro Ser Ser Thr Val Ile Lys  
 195 200 205  
 Lys Pro Ser Gly Gly Ser Ser Lys Lys Pro Ala Thr Ser Ala Arg Lys  
 210 215 220  
 Glu Val Lys Leu Pro Gly Lys Gly Lys Ser Thr Met Lys Lys Ser Phe  
 225 230 235 240  
 Arg Val Lys Lys

<210> 544  
 <211> 152  
 <212> PRT  
 <213> Homo sapiens

<400> 544  
 Asp Phe Glu Phe His His Asp Thr Leu Phe Ser Tyr Lys Ile Tyr Phe  
 1 5 10 15  
 Phe Thr Leu Lys Asp Phe Phe Met Val Asp Leu Pro Leu Pro Gly Asn  
 20 25 30  
 Phe Thr Ser Phe Leu Ala Leu Val Ala Gly Phe Phe Glu Glu Pro Pro  
 35 40 45  
 Leu Gly Phe Leu Met Thr Val Asp Glu Gly Leu Val Phe Leu Ala Gly  
 50 55 60  
 Val Leu Ala Leu Gly Gly Ala Phe Leu Gly Lys Gly Leu Ala Phe Pro



65		70		75		80
Arg Trp Ala Ala Glu Thr Leu Gly Ala Gly Leu Asp Pro Leu Cys Phe						
	85			90		95
Thr Asp Ala Ala Phe Pro Gly Asp Leu Ala Gly Val Phe Phe Cys Asn						
	100			105		110
Leu Leu Leu Gly Gly Gly Ser Ser Ser Ser Glu Ser Ser Ser Asp Asp						
	115			120		125
Ser Ser Ser Ser Ser Ser Ser Ser Leu Glu Ser Ser Gly Ser Phe Phe						
	130			135		140
Gly Asn Arg Thr Pro Gly Leu Gly						
145		150				

<210> 545  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 545
Cys Leu Asp Ala Phe Leu Phe Leu Leu Gly Lys Gln Leu Lys Lys Ser
1 5 10 15
Gly Glu Lys Pro Leu Leu Gly Gly Ser Leu Met Glu
20 25

<210> 546  
 <211> 30  
 <212> PRT  
 <213> Homo sapiens

<400> 546
Tyr Gln Met His Leu Leu Lys Lys Thr Leu Gln Lys Cys Glu Lys Asn
1 5 10 15
Gly Trp Met Glu Gln Ile Ser Gly Lys Gly Phe Ser Gly Thr
20 25 30

<210> 547  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 547
Lys Thr Pro Ala Lys Ser Pro Gly Lys Ala Ala Ser Val Lys Gln Arg
1 5 10 15
Gly Ser Lys Pro Ala Pro Lys Val Ser Ala Ala Gln
20 25

<210> 548  
 <211> 28

<212> PRT  
 <213> Homo sapiens

<400> 548  
 Ser Ser Lys Lys Pro Ala Thr Ser Ala Arg Lys Glu Val Lys Leu Pro  
 1 5 10 15  
 Gly Lys Gly Lys Ser Thr Met Lys Lys Ser Phe Arg  
 20 25

<210> 549  
 <211> 23  
 <212> PRT  
 <213> Homo sapiens

<400> 549  
 Val Asp Glu Gly Leu Val Phe Leu Ala Gly Val Leu Ala Leu Gly Gly  
 1 5 10 15  
 Ala Phe Leu Gly Lys Gly Leu  
 20

<210> 550  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 550  
 Gly Leu Asp Pro Leu Cys Phe Thr Asp Ala Ala Phe Pro Gly Asp Leu  
 1 5 10 15  
 Ala Gly Val Phe Phe Cys Asn Leu Leu  
 20 25

<210> 551  
 <211> 59  
 <212> PRT  
 <213> Homo sapiens

<400> 551  
 Thr Met Leu Phe Tyr Leu Ser Ser Gln Pro Asp Trp Gln Leu Asp Phe  
 1 5 10 15  
 Phe Arg Val Ser Phe Asn Gly Pro Val Phe Phe Ile Ile Ile Phe Asn  
 20 25 30  
 Asp Arg Ala Gly Phe Arg Met Gln Ala Leu Val Ser Gln Ala Ala Cys  
 35 40 45  
 Arg Arg Ser Arg Tyr Lys Leu Ser Val Val Tyr  
 50 55

<210> 552  
 <211> 23  
 <212> PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 552

Asp Arg Ala Gly Phe Arg Met Gln Ala Leu Val Ser Gln Ala Ala Cys  
 1 5 10 15

Arg Arg Ser Arg Tyr Lys Leu  
 20

&lt;210&gt; 553

&lt;211&gt; 438

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (84)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (188)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (324)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 553

Met Ala Met Gly Phe Pro Gly Tyr Asp Leu Ser Ala Asp Asp Ile Ala  
 1 5 10 15

Gly Lys Phe Gln Phe Ser Arg Gly Met Arg Arg Ser Tyr Asp Ala Gly  
 20 25 30

Phe Lys Leu Met Val Val Glu Tyr Ala Glu Ser Thr Asn Asn Cys Gln  
 35 40 45

Ala Ala Lys Gln Phe Gly Val Leu Glu Lys Asn Val Arg Asp Trp Arg  
 50 55 60

Lys Val Lys Pro Gln Leu Gln Asn Ala His Ala Met Arg Arg Ala Phe  
 65 70 75 80

Arg Gly Pro Xaa Asn Gly Arg Phe Ala Leu Val Asp Gln Arg Val Ala  
 85 90 95

Glu Tyr Val Arg Tyr Met Gln Ala Lys Gly Asp Pro Ile Thr Arg Glu  
 100 105 110

Ala Met Gln Leu Lys Ala Leu Glu Ile Ala Gln Glu Met Asn Ile Pro  
 115 120 125

Glu Lys Gly Phe Lys Ala Ser Leu Gly Trp Cys Arg Arg Met Met Arg  
 130 135 140

Arg Tyr Asp Leu Ser Leu Arg His Lys Val Pro Val Pro Gln His Leu

145		150		155		160
Pro Glu Asp Leu Thr	Glu Lys Leu Val Thr Tyr Gln Arg Ser Val Leu					
	165			170		175
Ala Leu Arg Arg	Ala His Asp Tyr Glu Val Ala Xaa Met Gly Asn Ala					
	180			185		190
Asp Glu Thr Pro Ile Cys Leu Glu Val Pro Ser Arg Val Thr Val Asp						
	195			200		205
Asn Gln Gly Glu Lys Pro Val Leu Val Lys Thr Pro Gly Arg Glu Lys						
	210			215		220
Leu Lys Ile Thr Ala Met Leu Gly Val Leu Ala Asp Gly Arg Lys Leu						
	225			230		235
Pro Pro Tyr Ile Ile Leu Arg Gly Thr Tyr Ile Pro Pro Gly Lys Phe						
	245			250		255
Pro Ser Gly Met Glu Ile Arg Cys His Arg Tyr Gly Trp Met Thr Glu						
	260			265		270
Asp Leu Met Gln Asp Trp Leu Glu Val Val Trp Arg Arg Arg Thr Gly						
	275			280		285
Ala Val Pro Lys Gln Arg Gly Met Leu Ile Leu Asn Gly Phe Arg Gly						
	290			295		300
His Ala Thr Asp Ser Val Lys Asn Ser Met Glu Ser Met Asn Thr Asp						
	305			310		315
Met Val Ile Xaa Pro Gly Gly Leu Thr Ser Gln Leu Gln Val Leu Asp						
	325			330		335
Val Val Val Tyr Lys Pro Leu Asn Asp Ser Val Arg Ala Gln Tyr Ser						
	340			345		350
Asn Trp Leu Leu Ala Gly Asn Leu Ala Leu Ser Pro Thr Gly Asn Ala						
	355			360		365
Lys Lys Pro Pro Leu Gly Leu Phe Leu Glu Trp Val Met Val Ala Trp						
	370			375		380
Asn Ser Ile Ser Ser Glu Ser Ile Val Gln Gly Phe Lys Lys Cys His						
	385			390		395
Ile Ser Ser Asn Leu Glu Glu Glu Asp Val Leu Trp Glu Ile Glu						
	405			410		415
Ser Glu Leu Pro Gly Gly Gly Glu Pro Pro Lys Asp Cys Asp Thr Glu						
	420			425		430
Ser Met Ala Glu Ser Asn						
	435					

&lt;210&gt; 554

&lt;211&gt; 30

<212> PRT  
 <213> Homo sapiens

<400> 554  
 Gly Gln Glu Glu Trp Thr Asn Ser Arg His Lys Ala Pro Ser Ala Arg  
 1 5 10 15  
 Thr Ala Lys Gly Val Tyr Arg Asp Gln Pro Tyr Gly Arg Tyr  
 20 25 30

<210> 555  
 <211> 26  
 <212> PRT  
 <213> Homo sapiens

<400> 555  
 Ile Leu Ala Ile Ser Leu Ala Gln Asn Phe Thr Pro Ser Trp Lys Gly  
 1 5 10 15  
 Gly Glu Arg Glu Cys Ser Asp Leu Tyr Leu  
 20 25

<210> 556  
 <211> 11  
 <212> PRT  
 <213> Homo sapiens

<400> 556  
 Leu Gln Thr Tyr Leu Ser Pro Tyr Lys Leu Phe  
 1 5 10

<210> 557  
 <211> 22  
 <212> PRT  
 <213> Homo sapiens

<400> 557  
 Leu Ala Ala Gly Ile Leu Asn Ser Ser Leu Pro Ala Leu Tyr His Ser  
 1 5 10 15  
 Val Glu Glu Ile Ser Gln  
 20

<210> 558  
 <211> 45  
 <212> PRT  
 <213> Homo sapiens

<400> 558  
 Xaa Tyr Arg Met Asn Thr Lys Phe Leu Glu Ser Tyr Lys Met Ser Thr  
 1 5 10 15  
 Thr Leu Ser Arg Arg His Gln Asn Val Ser Leu Cys Lys Asp Met Lys  
 20 25 30

Thr Pro Ala Gly Thr Asp Thr Lys Ile Ala Phe Leu Glu  
           35                          40                          45

<210> 559  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 559  
 Ser Tyr Lys Met Ser Thr Thr Leu Ser Arg Arg His Gln Asn Val Ser  
       1                          5                          10                          15

Leu Cys Lys Asp Met  
                           20

<210> 560  
 <211> 57  
 <212> PRT  
 <213> Homo sapiens

<400> 560  
 Ile Cys Ile Glu Ser Leu Met Leu His Tyr Ile Ala Leu Val Phe Glu  
       1                          5                          10                          15

Met Ala Phe Met Phe Pro Leu Val Tyr His Glu Met Gly Ser Asp Ser  
                           20                          25                          30

Ile Arg Phe His Leu Cys Gln Val Asp Ser Cys Leu Pro Ser Met Met  
                           35                          40                          45

Arg Phe Phe Phe Ser Phe Pro Phe Leu  
       50                          55

<210> 561  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 561  
 Tyr Ile Ala Leu Val Phe Glu Met Ala Phe Met Phe Pro Leu Val Tyr  
       1                          5                          10                          15

His Glu Met Gly Ser  
                           20

<210> 562  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 562  
 Ser Asp Ser Ile Arg Phe His Leu Cys Gln Val Asp Ser Cys Leu Pro  
       1                          5                          10                          15

Ser Met Met Arg Phe

20

<210> 563  
 <211> 115  
 <212> PRT  
 <213> Homo sapiens

<400> 563  
 Gly Gly Val Ser Val Gln Asp Gly Ser Leu Arg Glu Glu Thr Asp Val  
 1 5 10 15  
 Gly Glu Gly Gly Arg Pro Arg Gly Gly Gln Ser Glu Gly Ala Arg Val  
 20 25 30  
 Thr Arg Arg Pro Ser Pro Pro Asp Ser Asn Ala Ser Ala Phe Asp Leu  
 35 40 45  
 Asp Leu Asp Phe Ser Pro Phe Cys Ile Trp Cys Tyr Arg Leu Glu Thr  
 50 55 60  
 Pro Ala Glu Val Val Phe Ser Pro Ala Pro Leu Arg Leu Ser Gly Pro  
 65 70 75 80  
 Gly Leu Ala Pro Val Val Phe Val Ser Thr Leu Pro Ser Leu Gln Pro  
 85 90 95  
 Ser Ser Phe Cys Gly Trp Asp Leu Pro Ala Arg Pro Arg Gly Leu Ser  
 100 105 110  
 Gly Phe Arg  
 115

<210> 564  
 <211> 111  
 <212> PRT  
 <213> Homo sapiens  
 <220>  
 <221> SITE  
 <222> (82)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 564  
 Phe Thr Asn Lys Ser Cys Ser Lys Met Ser Ser Thr His Leu Tyr Lys  
 1 5 10 15  
 Gly Ser Asp Val Leu Cys Tyr Ala Arg Ser Ser Glu Ser Met Ser Leu  
 20 25 30  
 Ser Cys Gly Asp Val Ala Asn Ala Gly Arg Leu Thr Pro Arg Leu His  
 35 40 45  
 Leu Ala Arg Ser Ala Ser Gln Gly Pro Pro Thr Leu Pro Arg Val Pro  
 50 55 60  
 Pro Arg Gly Ser Arg Pro Pro Thr Ala Gly Glu Ser Pro Ala Pro Arg  
 65 70 75 80

Thr Xaa Ser Leu Glu Asn His Lys Asn Ile Asp His Leu Ser Ser Asn  
85 90 95

Ser His Gly Lys Phe Arg Ile Tyr Gly Gln Asn Asp Ile Lys Ile  
100 105 110

<210> 565  
<211> 80  
<212> PRT  
<213> Homo sapiens

<400> 565  
Gln Asp Val Ile Tyr Thr Phe Val Gln Arg Phe Arg Arg Pro Met Leu  
1 5 10 15

Cys Thr Ile Leu Arg Lys Tyr Glu Pro Val Val Arg Gly Arg Arg Lys  
20 25 30

Arg Trp Gln Ala His Pro Ser Ser Ala Phe Gly Lys Lys Arg Leu Pro  
35 40 45

Arg Pro Pro His Pro Ala Gln Gly Ala Pro Gln Arg Glu Gln Ala Ser  
50 55 60

His Ser Trp Arg Glu Pro Gly Pro Gln Asn Thr Phe Pro Arg Lys Pro  
65 70 75 80

<210> 566  
<211> 22  
<212> PRT  
<213> Homo sapiens

<400> 566  
Arg Glu Glu Thr Asp Val Gly Glu Gly Gly Arg Pro Arg Gly Gly Gln  
1 5 10 15

Ser Glu Gly Ala Arg Val  
20

<210> 567  
<211> 27  
<212> PRT  
<213> Homo sapiens

<400> 567  
Gly Pro Gly Leu Ala Pro Val Val Phe Val Ser Thr Leu Pro Ser Leu  
1 5 10 15

Gln Pro Ser Ser Phe Cys Gly Trp Asp Leu Pro  
20 25



<210> 568  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 568  
 Met Ser Ser Thr His Leu Tyr Lys Gly Ser Asp Val Leu Cys Tyr Ala  
 1 5 10 15  
 Arg Ser Ser Glu Ser Met Ser Leu  
 20

<210> 569  
 <211> 28  
 <212> PRT  
 <213> Homo sapiens

<400> 569  
 Ser Gln Gly Pro Pro Thr Leu Pro Arg Val Pro Pro Arg Gly Ser Arg  
 1 5 10 15  
 Pro Pro Thr Ala Gly Glu Ser Pro Ala Pro Arg Thr  
 20 25

<210> 570  
 <211> 25  
 <212> PRT  
 <213> Homo sapiens

<400> 570  
 Arg Phe Arg Arg Pro Met Leu Cys Thr Ile Leu Arg Lys Tyr Glu Pro  
 1 5 10 15  
 Val Val Arg Gly Arg Arg Lys Arg Trp  
 20 25

<210> 571  
 <211> 24  
 <212> PRT  
 <213> Homo sapiens

<400> 571  
 Arg Leu Pro Arg Pro Pro His Pro Ala Gln Gly Ala Pro Gln Arg Glu  
 1 5 10 15  
 Gln Ala Ser His Ser Trp Arg Glu  
 20

<210> 572  
 <211> 81  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE

&lt;222&gt; (43)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 572

Arg Gly Met Arg Gly Arg Trp Leu Val Ser Ser Gly Ala Ala Phe Pro  
 1 5 10 15

Ile Pro Leu Asn Gly Phe Cys Glu Ser Arg Glu Phe Phe Pro Asp Ser  
 20 25 30

Gly Ser Val Leu Leu His Trp Arg Pro Asn Xaa Val Leu Ile Glu Ile  
 35 40 45

Lys Val Phe Gly Ser Arg Ser Gln Ser Leu Ile Ser Ser Lys Asn Leu  
 50 55 60

Lys Thr Ser Leu Thr Phe Ile Tyr Gly Lys Val Glu Glu Val Leu Asn  
 65 70 75 80

Asn

&lt;210&gt; 573

&lt;211&gt; 81

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (62)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 573

Leu Lys Leu Ser Ser Ala Asp Ser Gln Ala Ile Met Asn Ile Phe Ser  
 1 5 10 15

Ala Asp Cys Met Pro Arg Leu His Ile Ala Leu Gln Thr Glu Met Ile  
 20 25 30

Pro Asn Arg Ala Pro Gln Gly Gly Ala Ala Ala Asn Leu Trp His Glu  
 35 40 45

Ala Gln Tyr Arg Arg Leu Pro Phe Ser Arg Ala Pro Glu Xaa Thr Asp  
 50 55 60

Ala His Gln Ala Ser Ala Gln Arg Gly Ala Ala Gln Leu Pro Arg Glu  
 65 70 75 80

Gln

&lt;210&gt; 574

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

<221> SITE  
 <222> (28)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 574  
 Pro Ile Pro Leu Asn Gly Phe Cys Glu Ser Arg Glu Phe Phe Pro Asp  
 1 5 10 15  
 Ser Gly Ser Val Leu Leu His Trp Arg Pro Asn Xaa  
 20 25

<210> 575  
 <211> 29  
 <212> PRT  
 <213> Homo sapiens

<400> 575  
 Asn Ile Phe Ser Ala Asp Cys Met Pro Arg Leu His Ile Ala Leu Gln  
 1 5 10 15  
 Thr Glu Met Ile Pro Asn Arg Ala Pro Gln Gly Gly Ala  
 20 25

<210> 576  
 <211> 37  
 <212> PRT  
 <213> Homo sapiens

<400> 576  
 Thr Phe Arg Leu Val Ser Ala His Leu Lys Thr Arg Lys Leu Ile Asn  
 1 5 10 15  
 Pro Glu Ala Ala Glu Arg Arg Trp Arg Asp Trp Asp Ser Arg Gln Gly  
 20 25 30  
 Trp Leu Ser Val Lys  
 35

<210> 577  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 577  
 Lys Thr Arg Lys Leu Ile Asn Pro Glu Ala Ala Glu Arg Arg Trp Arg  
 1 5 10 15  
 Asp Trp Asp Ser Arg  
 20

<210> 578  
 <211> 83  
 <212> PRT  
 <213> Homo sapiens

&lt;400&gt; 578

Trp Asn Tyr Thr Val Asn Asn Leu Tyr Leu Phe Ser Phe Ser Ile Val  
 1 5 10 15

Ser Met Lys Phe Met His Val Leu Ser Ile Asn Ile Phe Phe Gly Arg  
 20 25 30

Ala Arg Trp Leu Thr Pro Val Ile Pro Ala Leu Leu Glu Ala Glu Ala  
 35 40 45

Gly Gly Ser Leu Gly Gln Glu Phe Lys Thr Ser Leu Gly Lys Asp Gly  
 50 55 60

Glu Thr Pro Ser Leu Leu Lys Ile Gln Lys Leu Ala Gly His Gly Gly  
 65 70 75 80

Arg Arg Leu

&lt;210&gt; 579

&lt;211&gt; 76

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 579

Asp Gln Pro Gly Lys His Gly Glu Thr Leu Ser Leu Leu Lys Met Gln  
 1 5 10 15

Lys Leu Thr Trp Cys Gly Gly Met Pro Phe Val Ile Pro Ser Tyr Ser  
 20 25 30

Arg Ser Pro Arg Pro Glu Asn Arg Leu Asn Leu Gly Asp Arg Gly Cys  
 35 40 45

Thr Glu Leu Leu His Ser Ser Leu Gly Asn Arg Val Arg Leu Ser Lys  
 50 55 60

Lys Lys Glu Val Tyr Met Met Glu Leu Tyr Ser Lys  
 65 70 75

&lt;210&gt; 580

&lt;211&gt; 28

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 580

Val Ile Pro Ala Leu Leu Glu Ala Glu Ala Gly Gly Ser Leu Gly Gln  
 1 5 10 15

Glu Phe Lys Thr Ser Leu Gly Lys Asp Gly Glu Thr  
 20 25

&lt;210&gt; 581

&lt;211&gt; 29

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 581

Asn Arg Leu Asn Leu Gly Asp Arg Gly Cys Thr Glu Leu Leu His Ser  
 1 5 10 15

Ser Leu Gly Asn Arg Val Arg Leu Ser Lys Lys Lys Glu  
 20 25

&lt;210&gt; 582

&lt;211&gt; 8

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 582

His Glu Ile Phe Gly Gln Val Phe  
 1 5

&lt;210&gt; 583

&lt;211&gt; 17

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 583

His Ala Ser Glu His Leu Ala Ala Leu Pro Val Asn Val Lys Ile Gly  
 1 5 10 15

Lys

&lt;210&gt; 584

&lt;211&gt; 77

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 584

Leu Val Cys Ile Leu Leu Val His Trp Ile Pro Pro Leu Gly Ala Trp  
 1 5 10 15

Gly Leu Ser Leu Met Leu Phe Leu Ile Leu Glu Gln Arg Cys Gly Lys  
 20 25 30

Gly Lys Trp Arg Asn Ala Leu Leu Ser Val Ser Phe Ser Val Pro Gln  
 35 40 45

Leu Gln Met Gln Lys Val Ser Leu Asp Ser Thr Pro Leu Asn Val Asn  
 50 55 60

His Asp Lys Met Asp Ile Trp Lys Leu Thr Pro Lys Leu  
 65 70 75

&lt;210&gt; 585

&lt;211&gt; 57

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

<400> 585  
 Ile Met Ile Lys Trp Ile Phe Gly Asn Leu Leu Leu Ser Cys Asp Leu  
 1 5 10 15  
 Gly Cys Ile Ser Thr Ser Gly Leu Pro Gln Tyr Gln Gly Leu Arg Leu  
 20 25 30  
 Leu Asn Phe Glu Tyr Ser Leu Gly Phe Met Leu Arg Ser Leu Trp Ser  
 35 40 45  
 Arg Ser Ala Ile Gln Cys Phe Phe Ser  
 50 55

<210> 586  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 586  
 Leu Leu Leu Ser Cys Asp Leu Gly Cys Ile Ser Thr Ser Gly Leu Pro  
 1 5 10 15  
 Gln Tyr Gln Gly Leu  
 20

<210> 587  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 587  
 Leu Arg Leu Leu Asn Phe Glu Tyr Ser Leu Gly Phe Met Leu Arg Ser  
 1 5 10 15  
 Leu Trp Ser Arg Ser  
 20

<210> 588  
 <211> 78  
 <212> PRT  
 <213> Homo sapiens

<400> 588  
 Ala Ser Pro His Leu Phe Ile Glu Lys Trp Gly Arg Ala Phe Ile Leu  
 1 5 10 15  
 Arg Lys Leu Leu Leu Val Pro Val Ile Ser Lys Arg Ile Ile Asn Ile  
 20 25 30  
 Met Ala His Gln Val Lys Pro Pro Ile Phe Cys Ala Met Ile Met Cys  
 35 40 45  
 Asn Leu Phe Cys Ser Gly Tyr Glu His Leu Leu Phe Thr Leu Met Arg  
 50 55 60  
 Phe Phe Ser Phe Glu Gln Ile Phe Asp Glu Val Val Phe His

65

70

75

&lt;210&gt; 589

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 589

Lys	Leu	Leu	Leu	Val	Pro	Val	Ile	Ser	Lys	Arg	Ile	Ile	Asn	Ile	Met
1				5					10					15	

Ala	His	Gln	Val	Lys	Pro	Pro	Ile	Phe
			20					25

&lt;210&gt; 590

&lt;211&gt; 7

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 590

Pro	Glu	Gln	Lys	Arg	Leu	His
1			5			

&lt;210&gt; 591

&lt;211&gt; 358

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (352)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;220&gt;

&lt;221&gt; SITE

&lt;222&gt; (356)

&lt;223&gt; Xaa equals any of the naturally occurring L-amino acids

&lt;400&gt; 591

Phe	Ala	Val	Ile	Arg	Phe	Glu	Ser	Ile	Ile	His	Glu	Phe	Asp	Pro	Trp
1				5					10					15	

Phe	Asn	Tyr	Arg	Ser	Thr	His	His	Leu	Ala	Ser	His	Gly	Phe	Tyr	Glu
			20					25					30		

Phe	Leu	Asn	Trp	Phe	Asp	Glu	Arg	Ala	Trp	Tyr	Pro	Leu	Gly	Arg	Ile
		35					40					45			

Val	Gly	Gly	Thr	Val	Tyr	Pro	Gly	Leu	Met	Ile	Thr	Ala	Gly	Leu	Ile
	50					55					60				

His	Trp	Ile	Leu	Asn	Thr	Leu	Asn	Ile	Thr	Val	His	Ile	Arg	Asp	Val
65					70					75					80

Cys	Val	Phe	Leu	Ala	Pro	Thr	Phe	Ser	Gly	Leu	Thr	Ser	Ile	Ser	Thr
				85					90					95	

Phe Leu Leu Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala  
 100 105 110  
 Ala Cys Phe Ile Ala Ile Val Pro Gly Tyr Ile Ser Arg Ser Val Ala  
 115 120 125  
 Gly Ser Phe Asp Asn Glu Gly Ile Ala Ile Phe Ala Leu Gln Phe Thr  
 130 135 140  
 Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp Thr  
 145 150 155 160  
 Met Cys Cys Cys Leu Ser Tyr Phe Tyr Met Val Ser Ala Trp Gly Gly  
 165 170 175  
 Tyr Val Phe Ile Ile Asn Leu Ile Pro Leu His Val Phe Val Leu Leu  
 180 185 190  
 Leu Met Gln Arg Tyr Ser Lys Arg Val Tyr Ile Ala Tyr Ser Thr Phe  
 195 200 205  
 Tyr Ile Val Gly Leu Ile Leu Ser Met Gln Ile Pro Phe Val Gly Phe  
 210 215 220  
 Gln Pro Ile Arg Thr Ser Glu His Met Ala Ala Ala Gly Val Phe Ala  
 225 230 235 240  
 Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg Asp Arg Leu Thr  
 245 250 255  
 Lys Gln Glu Phe Gln Thr Leu Phe Phe Leu Gly Val Ser Leu Ala Ala  
 260 265 270  
 Gly Ala Val Phe Leu Ser Val Ile Tyr Leu Thr Tyr Thr Gly Tyr Ile  
 275 280 285  
 Ala Pro Trp Ser Gly Arg Phe Tyr Ser Leu Trp Asp Thr Gly Tyr Ala  
 290 295 300  
 Lys Ile His Ile Pro Ile Ile Ala Ser Val Ser Glu His Gln Pro Thr  
 305 310 315 320  
 Thr Trp Val Ser Phe Phe Phe Asp Leu His Ile Leu Val Cys Thr Phe  
 325 330 335  
 Pro Ala Gly Leu Trp Phe Cys Ile Lys Asn Ile Asn Asp Glu Arg Xaa  
 340 345 350  
 Phe Gly Lys Xaa Gly Phe  
 355

&lt;210&gt; 592

&lt;211&gt; 27

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 592



Glu Phe Asp Pro Trp Phe Asn Tyr Arg Ser Thr His His Leu Ala Ser  
 1 5 10 15

His Gly Phe Tyr Glu Phe Leu Asn Trp Phe Asp  
 20 25

<210> 593

<211> 23

<212> PRT

<213> Homo sapiens

<400> 593

Thr Arg Glu Leu Trp Asn Gln Gly Ala Gly Leu Leu Ala Ala Cys Phe  
 1 5 10 15

Ile Ala Ile Val Pro Gly Tyr  
 20

<210> 594

<211> 22

<212> PRT

<213> Homo sapiens

<400> 594

Thr Tyr Tyr Leu Trp Val Lys Ser Val Lys Thr Gly Ser Val Phe Trp  
 1 5 10 15

Thr Met Cys Cys Cys Leu  
 20

<210> 595

<211> 25

<212> PRT

<213> Homo sapiens

<400> 595

Gly Val Phe Ala Leu Leu Gln Ala Tyr Ala Phe Leu Gln Tyr Leu Arg  
 1 5 10 15

Asp Arg Leu Thr Lys Gln Glu Phe Gln  
 20 25

<210> 596

<211> 27

<212> PRT

<213> Homo sapiens

<400> 596

Tyr Ser Leu Trp Asp Thr Gly Tyr Ala Lys Ile His Ile Pro Ile Ile  
 1 5 10 15

Ala Ser Val Ser Glu His Gln Pro Thr Thr Trp  
 20 25

<210> 597  
 <211> 408  
 <212> PRT  
 <213> Homo sapiens

<220>  
 <221> SITE  
 <222> (20)  
 <223> Xaa equals any of the naturally occurring L-amino acids

<400> 597  
 Met Gly His Met Leu Tyr Leu Leu Gly Asn Ile Asn Lys Arg Thr Met  
 1 5 10 15  
 His Lys Tyr Xaa Gln Glu Ser Lys Lys Ala Gly Lys Ala Ser Phe Ala  
 20 25 30  
 Tyr Ala Trp Val Leu Asp Glu Thr Gly Glu Glu Arg Glu Arg Gly Val  
 35 40 45  
 Thr Met Asp Val Gly Met Thr Lys Phe Glu Thr Thr Thr Lys Val Ile  
 50 55 60  
 Thr Leu Met Asp Ala Pro Gly His Lys Asp Phe Ile Pro Asn Met Ile  
 65 70 75 80  
 Thr Gly Ala Ala Gln Ala Asp Val Ala Val Leu Val Val Asp Ala Ser  
 85 90 95  
 Arg Gly Glu Phe Glu Ala Gly Phe Glu Thr Gly Gly Gln Thr Arg Glu  
 100 105 110  
 His Gly Leu Leu Val Arg Ser Leu Gly Val Thr Gln Leu Ala Val Ala  
 115 120 125  
 Val Asn Lys Met Asp Gln Val Asn Trp Gln Gln Glu Arg Phe Gln Glu  
 130 135 140  
 Ile Thr Gly Lys Leu Gly His Phe Leu Lys Gln Ala Gly Phe Lys Glu  
 145 150 155 160  
 Ser Asp Val Gly Phe Ile Pro Thr Ser Gly Leu Ser Gly Glu Asn Leu  
 165 170 175  
 Ile Thr Arg Ser Gln Ser Ser Glu Leu Thr Lys Trp Tyr Lys Gly Leu  
 180 185 190  
 Cys Leu Leu Glu Gln Ile Asp Ser Phe Lys Pro Pro Gln Arg Ser Ile  
 195 200 205  
 Asp Lys Pro Phe Arg Leu Cys Val Ser Asp Val Phe Lys Asp Gln Gly  
 210 215 220  
 Ser Gly Phe Cys Ile Thr Gly Lys Ile Glu Ala Gly Tyr Ile Gln Thr  
 225 230 235 240  
 Gly Asp Arg Leu Leu Ala Met Pro Pro Asn Glu Thr Cys Thr Val Lys  
 245 250 255

Gly Ile Thr Leu His Asp Glu Pro Val Asp Trp Ala Ala Ala Gly Asp  
260 265 270

His Val Ser Leu Thr Leu Val Gly Met Asp Ile Ile Lys Ile Asn Val  
275 280 285

Gly Cys Ile Phe Cys Gly Pro Lys Val Pro Ile Lys Ala Cys Thr Arg  
290 295 300

Phe Arg Ala Arg Ile Leu Ile Phe Asn Ile Glu Ile Pro Ile Thr Lys  
305 310 315 320

Gly Phe Pro Val Leu Leu His Tyr Gln Thr Val Ser Glu Pro Ala Val  
325 330 335

Ile Lys Arg Leu Ile Ser Val Leu Asn Lys Ser Thr Gly Glu Val Thr  
340 345 350

Lys Lys Lys Pro Lys Phe Leu Thr Lys Gly Gln Asn Ala Leu Val Glu  
355 360 365

Leu Gln Thr Gln Arg Pro Ile Ala Leu Glu Leu Tyr Lys Asp Phe Lys  
370 375 380

Glu Leu Gly Arg Phe Met Leu Arg Tyr Gly Gly Ser Thr Ile Ala Ala  
385 390 395 400

Gly Val Val Thr Glu Ile Lys Glu  
405

<210> 598

<211> 21

<212> PRT

<213> Homo sapiens

<220>

<221> SITE

<222> (16)

<223> Xaa equals any of the naturally occurring L-amino acids

<400> 598

Leu Tyr Leu Leu Gly Asn Ile Asn Lys Arg Thr Met His Lys Tyr Xaa  
1 5 10 15

Gln Glu Ser Lys Lys  
20

<210> 599

<211> 23

<212> PRT

<213> Homo sapiens

<400> 599

Leu Asp Glu Thr Gly Glu Glu Arg Glu Arg Gly Val Thr Met Asp Val  
1 5 10 15

Gly Met Thr Lys Phe Glu Thr

20

&lt;210&gt; 600

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 600

Gly His Lys Asp Phe Ile Pro Asn Met Ile Thr Gly Ala Ala Gln Ala  
 1 5 10 15

Asp Val Ala Val Leu Val  
 20

&lt;210&gt; 601

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 601

Gly Phe Glu Thr Gly Gly Gln Thr Arg Glu His Gly Leu Leu Val Arg  
 1 5 10 15

Ser Leu Gly Val Thr Gln Leu  
 20

&lt;210&gt; 602

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 602

Trp Gln Gln Glu Arg Phe Gln Glu Ile Thr Gly Lys Leu Gly His Phe  
 1 5 10 15

Leu Lys Gln Ala Gly Phe Lys  
 20

&lt;210&gt; 603

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 603

Thr Ser Gly Leu Ser Gly Glu Asn Leu Ile Thr Arg Ser Gln Ser Ser  
 1 5 10 15

Glu Leu Thr Lys Trp Tyr  
 20

&lt;210&gt; 604

&lt;211&gt; 23

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 604

Pro Gln Arg Ser Ile Asp Lys Pro Phe Arg Leu Cys Val Ser Asp Val  
 1 5 10 15

Phe Lys Asp Gln Gly Ser Gly  
 20

&lt;210&gt; 605

&lt;211&gt; 22

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 605

Leu Ile Ser Val Leu Asn Lys Ser Thr Gly Glu Val Thr Lys Lys Lys  
 1 5 10 15

Pro Lys Phe Leu Thr Lys  
 20

&lt;210&gt; 606

&lt;211&gt; 25

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 606

Gln Arg Pro Ile Ala Leu Glu Leu Tyr Lys Asp Phe Lys Glu Leu Gly  
 1 5 10 15

Arg Phe Met Leu Arg Tyr Gly Gly Ser  
 20 25

&lt;210&gt; 607

&lt;211&gt; 83

&lt;212&gt; PRT

&lt;213&gt; Homo sapiens

&lt;400&gt; 607

Gln Lys Gly Pro Pro Ile Glu Asp Ala Ile Ala Ser Ser Asp Val Leu  
 1 5 10 15

Glu Thr Ala Ser Lys Ser Ala Asn Pro Pro His Thr Ile Gln Ala Ser  
 20 25 30

Glu Glu Gln Ser Ser Thr Pro Ala Pro Val Lys Lys Ser Gly Lys Leu  
 35 40 45

Arg Gln Gln Ile Asp Val Lys Ala Glu Leu Glu Lys Arg Gln Gly Gly  
 50 55 60

Lys Gln Leu Leu Asn Leu Val Val Ile Gly His Val Asp Ala Gly Lys  
 65 70 75 80

Ser Thr Leu

<210> 608  
 <211> 120  
 <212> PRT  
 <213> Homo sapiens

<400> 608  
 Asn Gly Phe Phe Ser Phe Ser Met Tyr Ile Ile Leu Cys Gln Thr Phe  
 1 5 10 15  
 Phe Ser Val Ala Ala Leu Arg Trp Thr Gly Asp Ser Ile Gly Phe Ile  
 20 25 30  
 Asn Leu Ser Phe Ser His Leu Phe Ile Pro Gln Thr Phe Val Glu Gly  
 35 40 45  
 His Gln Ala Leu Gly Arg Gly Lys Trp Phe Tyr Lys Leu Val Leu Ser  
 50 55 60  
 Gly Ile Lys Glu Ile Tyr Asn Leu Tyr Tyr Leu Ile Val Ala Thr Ser  
 65 70 75 80  
 His Met Trp Phe Ser Asn Lys Ile Ser Ile Thr Ser Pro Thr Thr Phe  
 85 90 95  
 Ser Ser Leu Val Arg Ser Arg Pro Arg Glu Thr Val Pro Phe Ile Val  
 100 105 110  
 Phe Ser Ala Phe Tyr Lys Leu Arg  
 115 120

<210> 609  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 609  
 Ile Ile Leu Cys Gln Thr Phe Phe Ser Val Ala Ala Leu Arg Trp Thr  
 1 5 10 15  
 Gly Asp Ser Ile Gly  
 20

<210> 610  
 <211> 21  
 <212> PRT  
 <213> Homo sapiens

<400> 610  
 Gly Phe Ile Asn Leu Ser Phe Ser His Leu Phe Ile Pro Gln Thr Phe  
 1 5 10 15  
 Val Glu Gly His Gln  
 20

<210> 611

